

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

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Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-115432-2

Client Project/Site: Gold King Mine - Region 9

For:

Weston Solutions, Inc.

1400 Weston Way

PO BOX 2653

West Chester, Pennsylvania 19380

Attn: Ms. Gretchen Fodor



Authorized for release by:

8/12/2015 1:31:09 PM

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*Results relate only to the items tested and the sample(s) as received by the laboratory.*

# Case Narrative

Client: Weston Solutions, Inc.  
Project/Site: Gold King Mine - Region 9

TestAmerica Job ID: 680-115432-2

**Job ID: 680-115432-2**

**Laboratory: TestAmerica Savannah**

**Narrative**

## CASE NARRATIVE

**Client: Weston Solutions, Inc.**

**Project: Gold King Mine - Region 9**

**Report Number: 680-115432-2**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

### RECEIPT

The samples were received on 08/11/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.2° C, 4.2° C, 4.4° C and 4.8° C.

### DISSOLVED METALS (ICPMS)

Samples SJBB-080915-11 (680-115432-1), SJMH-080915-11 (680-115432-2), SJMC-080915-11 (680-115432-3), SJDS-080915-11 (680-115432-4), SJSR-080915-11 (680-115432-5), SJ4C-080915-11 (680-115432-6), SJFP-080915-11 (680-115432-7), SJHB-080915-11 (680-115432-8), SJLP-080915-11 (680-115432-9), MECT-080915-11 (680-115432-10), SJME-080915-11 (680-115432-11) and SJME-080915-12 (680-115432-12) were analyzed for dissolved metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared and analyzed on 08/11/2015.

Nickel, Dissolved and Selenium, Dissolved exceeded the RPD limit for the duplicate of sample SJBB-080915-11DU (680-115432-1).

Refer to the QC report for details.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### TOTAL METALS (ICPMS)

Samples SJBB-080915-11 (680-115432-1), SJMH-080915-11 (680-115432-2), SJMC-080915-11 (680-115432-3), SJDS-080915-11 (680-115432-4), SJSR-080915-11 (680-115432-5), SJ4C-080915-11 (680-115432-6), SJFP-080915-11 (680-115432-7), SJHB-080915-11 (680-115432-8), SJLP-080915-11 (680-115432-9), MECT-080915-11 (680-115432-10), SJME-080915-11 (680-115432-11) and SJME-080915-12 (680-115432-12) were analyzed for total metals (ICPMS) in accordance with EPA Method 200.8. The samples were prepared on 08/11/2015 and analyzed on 08/11/2015 and 08/12/2015.

Selenium was detected in method blank MB 680-395507/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Antimony, Barium, Manganese and Molybdenum failed the recovery criteria low for the MS of sample SJBB-080915-11MS (680-115432-1) in batch 680-395685.

Antimony, Barium, Molybdenum and Zinc failed the recovery criteria low for the MSD of sample SJBB-080915-11MSD (680-115432-1) in batch 680-395685.

Antimony, Barium and Manganese failed the recovery criteria low for the MS of sample SJLP-080915-11MS (680-115432-9) in batch 680-395685.

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## Case Narrative

Client: Weston Solutions, Inc.  
Project/Site: Gold King Mine - Region 9

TestAmerica Job ID: 680-115432-2

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### Job ID: 680-115432-2 (Continued)

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#### Laboratory: TestAmerica Savannah (Continued)

Antimony, Barium, Manganese and Zinc failed the recovery criteria low for the MSD of sample SJLP-080915-11MSD (680-115432-9) in batch 680-395685.

The presence of the '4' qualifier indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Barium, Cadmium and Selenium exceeded the RPD limit for the duplicate of sample SJLP-080915-11DU (680-115432-9).

Refer to the QC report for details.

Samples SJBB-080915-11 (680-115432-1)[2X], SJMH-080915-11 (680-115432-2)[5X], SJMC-080915-11 (680-115432-3)[2X], SJDS-080915-11 (680-115432-4)[2X], SJSR-080915-11 (680-115432-5)[2X], SJ4C-080915-11 (680-115432-6)[2X], SJFP-080915-11 (680-115432-7)[2X] and SJHB-080915-11 (680-115432-8)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Sample Summary

Client: Weston Solutions, Inc.  
Project/Site: Gold King Mine - Region 9

TestAmerica Job ID: 680-115432-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-115432-1	SJBB-080915-11	Water	08/09/15 18:25	08/11/15 09:39
680-115432-2	SJMH-080915-11	Water	08/09/15 19:05	08/11/15 09:39
680-115432-3	SJMC-080915-11	Water	08/09/15 17:50	08/11/15 09:39
680-115432-4	SJDS-080915-11	Water	08/09/15 13:15	08/11/15 09:39
680-115432-5	SJSR-080915-11	Water	08/09/15 12:35	08/11/15 09:39
680-115432-6	SJ4C-080915-11	Water	08/09/15 15:31	08/11/15 09:39
680-115432-7	SJFP-080915-11	Water	08/09/15 10:15	08/11/15 09:39
680-115432-8	SJHB-080915-11	Water	08/09/15 11:31	08/11/15 09:39
680-115432-9	SJLP-080915-11	Water	08/09/15 09:54	08/11/15 09:39
680-115432-10	MECT-080915-11	Water	08/09/15 14:05	08/11/15 09:39
680-115432-11	SJME-080915-11	Water	08/09/15 16:35	08/11/15 09:39
680-115432-12	SJME-080915-12	Water	08/09/15 16:35	08/11/15 09:39

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# Method Summary

Client: Weston Solutions, Inc.  
Project/Site: Gold King Mine - Region 9

TestAmerica Job ID: 680-115432-2

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	TAL SAV

**Protocol References:**  
EPA = US Environmental Protection Agency

**Laboratory References:**  
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

## Definitions/Glossary

Client: Weston Solutions, Inc.  
Project/Site: Gold King Mine - Region 9

TestAmerica Job ID: 680-115432-2

### Qualifiers

#### Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.
F1	MS and/or MSD Recovery is outside acceptance limits.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F3	Duplicate RPD exceeds the control limit

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: Gold King Mine - Region 9

TestAmerica Job ID: 680-115432-2

Client Sample ID: SJBB-080915-11

Lab Sample ID: 680-115432-1

Date Collected: 08/09/15 18:25

Matrix: Water

Date Received: 08/11/15 09:39

## Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U F1	1.0	0.40	ug/L		08/11/15 12:52	08/11/15 23:05	1
Arsenic	9.2		1.0	0.37	ug/L		08/11/15 12:52	08/11/15 23:05	1
Barium	720		2.0	0.14	ug/L		08/11/15 12:52	08/11/15 23:05	1
Beryllium	3.1		0.40	0.15	ug/L		08/11/15 12:52	08/11/15 23:05	1
Cadmium	0.12	J	0.20	0.086	ug/L		08/11/15 12:52	08/12/15 11:00	2
Chromium	27		2.0	1.0	ug/L		08/11/15 12:52	08/11/15 23:05	1
Cobalt	22		0.40	0.12	ug/L		08/11/15 12:52	08/11/15 23:05	1
Copper	51		1.0	0.50	ug/L		08/11/15 12:52	08/11/15 23:05	1
Lead	40		0.30	0.060	ug/L		08/11/15 12:52	08/11/15 23:05	1
Manganese	1200		2.5	1.2	ug/L		08/11/15 12:52	08/11/15 23:05	1
Nickel	32		1.0	0.40	ug/L		08/11/15 12:52	08/11/15 23:05	1
Selenium	0.58	U	2.0	0.58	ug/L		08/11/15 12:52	08/11/15 23:05	1
Silver	0.20	J	1.0	0.10	ug/L		08/11/15 12:52	08/11/15 23:05	1
Thallium	0.57		0.20	0.10	ug/L		08/11/15 12:52	08/11/15 23:05	1
Vanadium	68		1.0	0.30	ug/L		08/11/15 12:52	08/11/15 23:05	1
Zinc	150	F1	20	2.8	ug/L		08/11/15 12:52	08/11/15 23:05	1
Molybdenum	1.5	F1	1.0	0.45	ug/L		08/11/15 12:52	08/11/15 23:05	1

## Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.40	U	1.0	0.40	ug/L		08/11/15 12:52	08/11/15 21:39	1
Arsenic, Dissolved	1.1		1.0	0.37	ug/L		08/11/15 12:52	08/11/15 21:39	1
Barium, Dissolved	74		2.0	0.14	ug/L		08/11/15 12:52	08/11/15 21:39	1
Beryllium, Dissolved	0.15	U	0.40	0.15	ug/L		08/11/15 12:52	08/11/15 21:39	1
Cadmium, Dissolved	0.043	U	0.10	0.043	ug/L		08/11/15 12:52	08/11/15 21:39	1
Chromium, Dissolved	1.0	U	2.0	1.0	ug/L		08/11/15 12:52	08/11/15 21:39	1
Cobalt, Dissolved	0.13	J	0.40	0.12	ug/L		08/11/15 12:52	08/11/15 21:39	1
Copper, Dissolved	2.3		1.0	0.50	ug/L		08/11/15 12:52	08/11/15 21:39	1
Lead, Dissolved	0.060	U	0.30	0.060	ug/L		08/11/15 12:52	08/11/15 21:39	1
Manganese, Dissolved	1.2	U	2.5	1.2	ug/L		08/11/15 12:52	08/11/15 21:39	1
Molybdenum, Dissolved	2.1		1.0	0.45	ug/L		08/11/15 12:52	08/11/15 21:39	1
Nickel, Dissolved	1.2		1.0	0.40	ug/L		08/11/15 12:52	08/11/15 21:39	1
Selenium, Dissolved	0.86	J	2.0	0.58	ug/L		08/11/15 12:52	08/11/15 21:39	1
Silver, Dissolved	0.10	U	1.0	0.10	ug/L		08/11/15 12:52	08/11/15 21:39	1
Thallium, Dissolved	0.10	U	0.20	0.10	ug/L		08/11/15 12:52	08/11/15 21:39	1
Vanadium, Dissolved	2.8		1.0	0.30	ug/L		08/11/15 12:52	08/11/15 21:39	1
Zinc, Dissolved	2.8	U	20	2.8	ug/L		08/11/15 12:52	08/11/15 21:39	1

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: Gold King Mine - Region 9

TestAmerica Job ID: 680-115432-2

Client Sample ID: SJMH-080915-11

Lab Sample ID: 680-115432-2

Date Collected: 08/09/15 19:05

Matrix: Water

Date Received: 08/11/15 09:39

## Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	1.0	0.40	ug/L		08/11/15 12:52	08/11/15 23:22	1
Arsenic	21		1.0	0.37	ug/L		08/11/15 12:52	08/11/15 23:22	1
Barium	2300		10	0.70	ug/L		08/11/15 12:52	08/12/15 10:56	5
Beryllium	8.1		0.40	0.15	ug/L		08/11/15 12:52	08/11/15 23:22	1
Cadmium	0.22	U	0.50	0.22	ug/L		08/11/15 12:52	08/12/15 10:56	5
Chromium	70		2.0	1.0	ug/L		08/11/15 12:52	08/11/15 23:22	1
Cobalt	55		0.40	0.12	ug/L		08/11/15 12:52	08/11/15 23:22	1
Copper	87		1.0	0.50	ug/L		08/11/15 12:52	08/11/15 23:22	1
Lead	85		0.30	0.060	ug/L		08/11/15 12:52	08/11/15 23:22	1
Manganese	3400		2.5	1.2	ug/L		08/11/15 12:52	08/11/15 23:22	1
Nickel	110		1.0	0.40	ug/L		08/11/15 12:52	08/11/15 23:22	1
Selenium	5.2	J	10	2.9	ug/L		08/11/15 12:52	08/12/15 10:56	5
Silver	0.39	J	1.0	0.10	ug/L		08/11/15 12:52	08/11/15 23:22	1
Thallium	1.4		0.20	0.10	ug/L		08/11/15 12:52	08/11/15 23:22	1
Vanadium	160		1.0	0.30	ug/L		08/11/15 12:52	08/11/15 23:22	1
Zinc	290		20	2.8	ug/L		08/11/15 12:52	08/11/15 23:22	1
Molybdenum	1.7		1.0	0.45	ug/L		08/11/15 12:52	08/11/15 23:22	1

## Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.40	U	1.0	0.40	ug/L		08/11/15 12:52	08/11/15 22:03	1
Arsenic, Dissolved	2.0		1.0	0.37	ug/L		08/11/15 12:52	08/11/15 22:03	1
Barium, Dissolved	130		2.0	0.14	ug/L		08/11/15 12:52	08/11/15 22:03	1
Beryllium, Dissolved	0.15	U	0.40	0.15	ug/L		08/11/15 12:52	08/11/15 22:03	1
Cadmium, Dissolved	0.043	U	0.10	0.043	ug/L		08/11/15 12:52	08/11/15 22:03	1
Chromium, Dissolved	1.0	U	2.0	1.0	ug/L		08/11/15 12:52	08/11/15 22:03	1
Cobalt, Dissolved	0.31	J	0.40	0.12	ug/L		08/11/15 12:52	08/11/15 22:03	1
Copper, Dissolved	2.8		1.0	0.50	ug/L		08/11/15 12:52	08/11/15 22:03	1
Lead, Dissolved	0.060	U	0.30	0.060	ug/L		08/11/15 12:52	08/11/15 22:03	1
Manganese, Dissolved	1.2	U	2.5	1.2	ug/L		08/11/15 12:52	08/11/15 22:03	1
Molybdenum, Dissolved	2.4		1.0	0.45	ug/L		08/11/15 12:52	08/11/15 22:03	1
Nickel, Dissolved	1.4		1.0	0.40	ug/L		08/11/15 12:52	08/11/15 22:03	1
Selenium, Dissolved	0.92	J	2.0	0.58	ug/L		08/11/15 12:52	08/11/15 22:03	1
Silver, Dissolved	0.10	U	1.0	0.10	ug/L		08/11/15 12:52	08/11/15 22:03	1
Thallium, Dissolved	0.10	U	0.20	0.10	ug/L		08/11/15 12:52	08/11/15 22:03	1
Vanadium, Dissolved	7.9		1.0	0.30	ug/L		08/11/15 12:52	08/11/15 22:03	1
Zinc, Dissolved	2.8	U	20	2.8	ug/L		08/11/15 12:52	08/11/15 22:03	1

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# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: Gold King Mine - Region 9

TestAmerica Job ID: 680-115432-2

Client Sample ID: SJMC-080915-11

Lab Sample ID: 680-115432-3

Date Collected: 08/09/15 17:50

Matrix: Water

Date Received: 08/11/15 09:39

## Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	1.0	0.40	ug/L		08/11/15 12:52	08/11/15 23:26	1
Arsenic	8.9		1.0	0.37	ug/L		08/11/15 12:52	08/11/15 23:26	1
Barium	600		2.0	0.14	ug/L		08/11/15 12:52	08/11/15 23:26	1
Beryllium	2.6		0.40	0.15	ug/L		08/11/15 12:52	08/11/15 23:26	1
Cadmium	0.086	U	0.20	0.086	ug/L		08/11/15 12:52	08/12/15 09:38	2
Chromium	25		2.0	1.0	ug/L		08/11/15 12:52	08/11/15 23:26	1
Cobalt	19		0.40	0.12	ug/L		08/11/15 12:52	08/11/15 23:26	1
Copper	44		1.0	0.50	ug/L		08/11/15 12:52	08/11/15 23:26	1
Lead	33		0.30	0.060	ug/L		08/11/15 12:52	08/11/15 23:26	1
Manganese	940		2.5	1.2	ug/L		08/11/15 12:52	08/11/15 23:26	1
Nickel	26		1.0	0.40	ug/L		08/11/15 12:52	08/11/15 23:26	1
Selenium	0.84	J	2.0	0.58	ug/L		08/11/15 12:52	08/11/15 23:26	1
Silver	0.19	J	1.0	0.10	ug/L		08/11/15 12:52	08/11/15 23:26	1
Thallium	0.49		0.20	0.10	ug/L		08/11/15 12:52	08/11/15 23:26	1
Vanadium	60		1.0	0.30	ug/L		08/11/15 12:52	08/11/15 23:26	1
Zinc	130		20	2.8	ug/L		08/11/15 12:52	08/11/15 23:26	1
Molybdenum	1.5		1.0	0.45	ug/L		08/11/15 12:52	08/11/15 23:26	1

## Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.40	U	1.0	0.40	ug/L		08/11/15 12:52	08/11/15 22:16	1
Arsenic, Dissolved	0.86	J	1.0	0.37	ug/L		08/11/15 12:52	08/11/15 22:16	1
Barium, Dissolved	77		2.0	0.14	ug/L		08/11/15 12:52	08/11/15 22:16	1
Beryllium, Dissolved	0.15	U	0.40	0.15	ug/L		08/11/15 12:52	08/11/15 22:16	1
Cadmium, Dissolved	0.043	U	0.10	0.043	ug/L		08/11/15 12:52	08/11/15 22:16	1
Chromium, Dissolved	1.0	U	2.0	1.0	ug/L		08/11/15 12:52	08/11/15 22:16	1
Cobalt, Dissolved	0.13	J	0.40	0.12	ug/L		08/11/15 12:52	08/11/15 22:16	1
Copper, Dissolved	2.0		1.0	0.50	ug/L		08/11/15 12:52	08/11/15 22:16	1
Lead, Dissolved	0.060	U	0.30	0.060	ug/L		08/11/15 12:52	08/11/15 22:16	1
Manganese, Dissolved	1.2	J	2.5	1.2	ug/L		08/11/15 12:52	08/11/15 22:16	1
Molybdenum, Dissolved	2.1		1.0	0.45	ug/L		08/11/15 12:52	08/11/15 22:16	1
Nickel, Dissolved	1.5		1.0	0.40	ug/L		08/11/15 12:52	08/11/15 22:16	1
Selenium, Dissolved	0.90	J	2.0	0.58	ug/L		08/11/15 12:52	08/11/15 22:16	1
Silver, Dissolved	0.10	U	1.0	0.10	ug/L		08/11/15 12:52	08/11/15 22:16	1
Thallium, Dissolved	0.10	U	0.20	0.10	ug/L		08/11/15 12:52	08/11/15 22:16	1
Vanadium, Dissolved	2.6		1.0	0.30	ug/L		08/11/15 12:52	08/11/15 22:16	1
Zinc, Dissolved	2.8	U	20	2.8	ug/L		08/11/15 12:52	08/11/15 22:16	1

TestAmerica Savannah

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: Gold King Mine - Region 9

TestAmerica Job ID: 680-115432-2

Client Sample ID: SJDS-080915-11

Lab Sample ID: 680-115432-4

Date Collected: 08/09/15 13:15

Matrix: Water

Date Received: 08/11/15 09:39

## Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	1.0	0.40	ug/L		08/11/15 12:52	08/11/15 23:30	1
Arsenic	9.4		1.0	0.37	ug/L		08/11/15 12:52	08/11/15 23:30	1
Barium	490		2.0	0.14	ug/L		08/11/15 12:52	08/11/15 23:30	1
Beryllium	1.8		0.40	0.15	ug/L		08/11/15 12:52	08/11/15 23:30	1
Cadmium	0.12	J	0.20	0.086	ug/L		08/11/15 12:52	08/12/15 09:42	2
Chromium	18		2.0	1.0	ug/L		08/11/15 12:52	08/11/15 23:30	1
Cobalt	13		0.40	0.12	ug/L		08/11/15 12:52	08/11/15 23:30	1
Copper	44		1.0	0.50	ug/L		08/11/15 12:52	08/11/15 23:30	1
Lead	96		0.30	0.060	ug/L		08/11/15 12:52	08/11/15 23:30	1
Manganese	700		2.5	1.2	ug/L		08/11/15 12:52	08/11/15 23:30	1
Nickel	17		1.0	0.40	ug/L		08/11/15 12:52	08/11/15 23:30	1
Selenium	1.1	J	2.0	0.58	ug/L		08/11/15 12:52	08/11/15 23:30	1
Silver	0.67	J	1.0	0.10	ug/L		08/11/15 12:52	08/11/15 23:30	1
Thallium	0.35		0.20	0.10	ug/L		08/11/15 12:52	08/11/15 23:30	1
Vanadium	43		1.0	0.30	ug/L		08/11/15 12:52	08/11/15 23:30	1
Zinc	130		20	2.8	ug/L		08/11/15 12:52	08/11/15 23:30	1
Molybdenum	1.7		1.0	0.45	ug/L		08/11/15 12:52	08/11/15 23:30	1

## Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.40	U	1.0	0.40	ug/L		08/11/15 12:52	08/11/15 22:20	1
Arsenic, Dissolved	0.81	J	1.0	0.37	ug/L		08/11/15 12:52	08/11/15 22:20	1
Barium, Dissolved	80		2.0	0.14	ug/L		08/11/15 12:52	08/11/15 22:20	1
Beryllium, Dissolved	0.15	U	0.40	0.15	ug/L		08/11/15 12:52	08/11/15 22:20	1
Cadmium, Dissolved	0.043	U	0.10	0.043	ug/L		08/11/15 12:52	08/11/15 22:20	1
Chromium, Dissolved	1.0	U	2.0	1.0	ug/L		08/11/15 12:52	08/11/15 22:20	1
Cobalt, Dissolved	0.54		0.40	0.12	ug/L		08/11/15 12:52	08/11/15 22:20	1
Copper, Dissolved	3.5		1.0	0.50	ug/L		08/11/15 12:52	08/11/15 22:20	1
Lead, Dissolved	3.5		0.30	0.060	ug/L		08/11/15 12:52	08/11/15 22:20	1
Manganese, Dissolved	32		2.5	1.2	ug/L		08/11/15 12:52	08/11/15 22:20	1
Molybdenum, Dissolved	1.7		1.0	0.45	ug/L		08/11/15 12:52	08/11/15 22:20	1
Nickel, Dissolved	1.5		1.0	0.40	ug/L		08/11/15 12:52	08/11/15 22:20	1
Selenium, Dissolved	0.58	U	2.0	0.58	ug/L		08/11/15 12:52	08/11/15 22:20	1
Silver, Dissolved	0.10	U	1.0	0.10	ug/L		08/11/15 12:52	08/11/15 22:20	1
Thallium, Dissolved	0.10	U	0.20	0.10	ug/L		08/11/15 12:52	08/11/15 22:20	1
Vanadium, Dissolved	2.8		1.0	0.30	ug/L		08/11/15 12:52	08/11/15 22:20	1
Zinc, Dissolved	7.0	J	20	2.8	ug/L		08/11/15 12:52	08/11/15 22:20	1

TestAmerica Savannah

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: Gold King Mine - Region 9

TestAmerica Job ID: 680-115432-2

Client Sample ID: SJSR-080915-11

Lab Sample ID: 680-115432-5

Date Collected: 08/09/15 12:35

Matrix: Water

Date Received: 08/11/15 09:39

## Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	1.0	0.40	ug/L		08/11/15 12:52	08/11/15 23:34	1
Arsenic	9.9		1.0	0.37	ug/L		08/11/15 12:52	08/11/15 23:34	1
Barium	630		2.0	0.14	ug/L		08/11/15 12:52	08/11/15 23:34	1
Beryllium	2.5		0.40	0.15	ug/L		08/11/15 12:52	08/11/15 23:34	1
Cadmium	0.086	U	0.20	0.086	ug/L		08/11/15 12:52	08/12/15 09:46	2
Chromium	22		2.0	1.0	ug/L		08/11/15 12:52	08/11/15 23:34	1
Cobalt	18		0.40	0.12	ug/L		08/11/15 12:52	08/11/15 23:34	1
Copper	50		1.0	0.50	ug/L		08/11/15 12:52	08/11/15 23:34	1
Lead	70		0.30	0.060	ug/L		08/11/15 12:52	08/11/15 23:34	1
Manganese	860		2.5	1.2	ug/L		08/11/15 12:52	08/11/15 23:34	1
Nickel	22		1.0	0.40	ug/L		08/11/15 12:52	08/11/15 23:34	1
Selenium	0.60	J	2.0	0.58	ug/L		08/11/15 12:52	08/11/15 23:34	1
Silver	0.44	J	1.0	0.10	ug/L		08/11/15 12:52	08/11/15 23:34	1
Thallium	0.46		0.20	0.10	ug/L		08/11/15 12:52	08/11/15 23:34	1
Vanadium	57		1.0	0.30	ug/L		08/11/15 12:52	08/11/15 23:34	1
Zinc	150		20	2.8	ug/L		08/11/15 12:52	08/11/15 23:34	1
Molybdenum	1.3		1.0	0.45	ug/L		08/11/15 12:52	08/11/15 23:34	1

## Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.40	U	1.0	0.40	ug/L		08/11/15 12:52	08/11/15 22:24	1
Arsenic, Dissolved	0.80	J	1.0	0.37	ug/L		08/11/15 12:52	08/11/15 22:24	1
Barium, Dissolved	81		2.0	0.14	ug/L		08/11/15 12:52	08/11/15 22:24	1
Beryllium, Dissolved	0.15	U	0.40	0.15	ug/L		08/11/15 12:52	08/11/15 22:24	1
Cadmium, Dissolved	0.043	U	0.10	0.043	ug/L		08/11/15 12:52	08/11/15 22:24	1
Chromium, Dissolved	1.2	J	2.0	1.0	ug/L		08/11/15 12:52	08/11/15 22:24	1
Cobalt, Dissolved	0.67		0.40	0.12	ug/L		08/11/15 12:52	08/11/15 22:24	1
Copper, Dissolved	4.0		1.0	0.50	ug/L		08/11/15 12:52	08/11/15 22:24	1
Lead, Dissolved	2.7		0.30	0.060	ug/L		08/11/15 12:52	08/11/15 22:24	1
Manganese, Dissolved	32		2.5	1.2	ug/L		08/11/15 12:52	08/11/15 22:24	1
Molybdenum, Dissolved	1.5		1.0	0.45	ug/L		08/11/15 12:52	08/11/15 22:24	1
Nickel, Dissolved	1.8		1.0	0.40	ug/L		08/11/15 12:52	08/11/15 22:24	1
Selenium, Dissolved	0.58	U	2.0	0.58	ug/L		08/11/15 12:52	08/11/15 22:24	1
Silver, Dissolved	0.10	U	1.0	0.10	ug/L		08/11/15 12:52	08/11/15 22:24	1
Thallium, Dissolved	0.10	U	0.20	0.10	ug/L		08/11/15 12:52	08/11/15 22:24	1
Vanadium, Dissolved	3.4		1.0	0.30	ug/L		08/11/15 12:52	08/11/15 22:24	1
Zinc, Dissolved	6.7	J	20	2.8	ug/L		08/11/15 12:52	08/11/15 22:24	1

TestAmerica Savannah

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: Gold King Mine - Region 9

TestAmerica Job ID: 680-115432-2

Client Sample ID: SJ4C-080915-11

Lab Sample ID: 680-115432-6

Date Collected: 08/09/15 15:31

Matrix: Water

Date Received: 08/11/15 09:39

## Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	J	1.0	0.40	ug/L		08/11/15 12:52	08/11/15 23:39	1
Arsenic	13		1.0	0.37	ug/L		08/11/15 12:52	08/11/15 23:39	1
Barium	540		2.0	0.14	ug/L		08/11/15 12:52	08/11/15 23:39	1
Beryllium	2.0		0.40	0.15	ug/L		08/11/15 12:52	08/11/15 23:39	1
Cadmium	0.11	J	0.20	0.086	ug/L		08/11/15 12:52	08/12/15 09:50	2
Chromium	18		2.0	1.0	ug/L		08/11/15 12:52	08/11/15 23:39	1
Cobalt	14		0.40	0.12	ug/L		08/11/15 12:52	08/11/15 23:39	1
Copper	62		1.0	0.50	ug/L		08/11/15 12:52	08/11/15 23:39	1
Lead	180		0.30	0.060	ug/L		08/11/15 12:52	08/11/15 23:39	1
Manganese	740		2.5	1.2	ug/L		08/11/15 12:52	08/11/15 23:39	1
Nickel	20		1.0	0.40	ug/L		08/11/15 12:52	08/11/15 23:39	1
Selenium	0.98	J	2.0	0.58	ug/L		08/11/15 12:52	08/11/15 23:39	1
Silver	1.3		1.0	0.10	ug/L		08/11/15 12:52	08/11/15 23:39	1
Thallium	0.40		0.20	0.10	ug/L		08/11/15 12:52	08/11/15 23:39	1
Vanadium	50		1.0	0.30	ug/L		08/11/15 12:52	08/11/15 23:39	1
Zinc	160		20	2.8	ug/L		08/11/15 12:52	08/11/15 23:39	1
Molybdenum	2.8		1.0	0.45	ug/L		08/11/15 12:52	08/11/15 23:39	1

## Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.40	U	1.0	0.40	ug/L		08/11/15 12:52	08/11/15 22:28	1
Arsenic, Dissolved	0.56	J	1.0	0.37	ug/L		08/11/15 12:52	08/11/15 22:28	1
Barium, Dissolved	76		2.0	0.14	ug/L		08/11/15 12:52	08/11/15 22:28	1
Beryllium, Dissolved	0.15	U	0.40	0.15	ug/L		08/11/15 12:52	08/11/15 22:28	1
Cadmium, Dissolved	0.043	U	0.10	0.043	ug/L		08/11/15 12:52	08/11/15 22:28	1
Chromium, Dissolved	1.0	U	2.0	1.0	ug/L		08/11/15 12:52	08/11/15 22:28	1
Cobalt, Dissolved	0.12	U	0.40	0.12	ug/L		08/11/15 12:52	08/11/15 22:28	1
Copper, Dissolved	1.7		1.0	0.50	ug/L		08/11/15 12:52	08/11/15 22:28	1
Lead, Dissolved	0.060	U	0.30	0.060	ug/L		08/11/15 12:52	08/11/15 22:28	1
Manganese, Dissolved	4.3		2.5	1.2	ug/L		08/11/15 12:52	08/11/15 22:28	1
Molybdenum, Dissolved	1.9		1.0	0.45	ug/L		08/11/15 12:52	08/11/15 22:28	1
Nickel, Dissolved	1.0		1.0	0.40	ug/L		08/11/15 12:52	08/11/15 22:28	1
Selenium, Dissolved	1.0	J	2.0	0.58	ug/L		08/11/15 12:52	08/11/15 22:28	1
Silver, Dissolved	0.10	U	1.0	0.10	ug/L		08/11/15 12:52	08/11/15 22:28	1
Thallium, Dissolved	0.10	U	0.20	0.10	ug/L		08/11/15 12:52	08/11/15 22:28	1
Vanadium, Dissolved	1.0		1.0	0.30	ug/L		08/11/15 12:52	08/11/15 22:28	1
Zinc, Dissolved	2.8	U	20	2.8	ug/L		08/11/15 12:52	08/11/15 22:28	1

TestAmerica Savannah

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: Gold King Mine - Region 9

TestAmerica Job ID: 680-115432-2

Client Sample ID: SJFP-080915-11

Lab Sample ID: 680-115432-7

Date Collected: 08/09/15 10:15

Matrix: Water

Date Received: 08/11/15 09:39

## Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	1.0	0.40	ug/L		08/11/15 13:06	08/11/15 23:43	1
Arsenic	5.1		1.0	0.37	ug/L		08/11/15 13:06	08/11/15 23:43	1
Barium	340		2.0	0.14	ug/L		08/11/15 13:06	08/11/15 23:43	1
Beryllium	1.4		0.40	0.15	ug/L		08/11/15 13:06	08/11/15 23:43	1
Cadmium	0.086	U	0.20	0.086	ug/L		08/11/15 13:06	08/12/15 09:54	2
Chromium	17		2.0	1.0	ug/L		08/11/15 13:06	08/11/15 23:43	1
Cobalt	10		0.40	0.12	ug/L		08/11/15 13:06	08/11/15 23:43	1
Copper	32		1.0	0.50	ug/L		08/11/15 13:06	08/11/15 23:43	1
Lead	47		0.30	0.060	ug/L		08/11/15 13:06	08/11/15 23:43	1
Manganese	500		2.5	1.2	ug/L		08/11/15 13:06	08/11/15 23:43	1
Nickel	15		1.0	0.40	ug/L		08/11/15 13:06	08/11/15 23:43	1
Selenium	0.92	J	2.0	0.58	ug/L		08/11/15 13:06	08/11/15 23:43	1
Silver	0.31	J	1.0	0.10	ug/L		08/11/15 13:06	08/11/15 23:43	1
Thallium	0.26		0.20	0.10	ug/L		08/11/15 13:06	08/11/15 23:43	1
Vanadium	31		1.0	0.30	ug/L		08/11/15 13:06	08/11/15 23:43	1
Zinc	94		20	2.8	ug/L		08/11/15 13:06	08/11/15 23:43	1
Molybdenum	1.4		1.0	0.45	ug/L		08/11/15 13:06	08/11/15 23:43	1

## Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.40	U	1.0	0.40	ug/L		08/11/15 12:52	08/11/15 22:32	1
Arsenic, Dissolved	0.41	J	1.0	0.37	ug/L		08/11/15 12:52	08/11/15 22:32	1
Barium, Dissolved	68		2.0	0.14	ug/L		08/11/15 12:52	08/11/15 22:32	1
Beryllium, Dissolved	0.15	U	0.40	0.15	ug/L		08/11/15 12:52	08/11/15 22:32	1
Cadmium, Dissolved	0.043	U	0.10	0.043	ug/L		08/11/15 12:52	08/11/15 22:32	1
Chromium, Dissolved	1.0	U	2.0	1.0	ug/L		08/11/15 12:52	08/11/15 22:32	1
Cobalt, Dissolved	0.12	J	0.40	0.12	ug/L		08/11/15 12:52	08/11/15 22:32	1
Copper, Dissolved	1.5		1.0	0.50	ug/L		08/11/15 12:52	08/11/15 22:32	1
Lead, Dissolved	0.060	U	0.30	0.060	ug/L		08/11/15 12:52	08/11/15 22:32	1
Manganese, Dissolved	4.1		2.5	1.2	ug/L		08/11/15 12:52	08/11/15 22:32	1
Molybdenum, Dissolved	1.5		1.0	0.45	ug/L		08/11/15 12:52	08/11/15 22:32	1
Nickel, Dissolved	1.2		1.0	0.40	ug/L		08/11/15 12:52	08/11/15 22:32	1
Selenium, Dissolved	0.58	U	2.0	0.58	ug/L		08/11/15 12:52	08/11/15 22:32	1
Silver, Dissolved	0.10	U	1.0	0.10	ug/L		08/11/15 12:52	08/11/15 22:32	1
Thallium, Dissolved	0.10	U	0.20	0.10	ug/L		08/11/15 12:52	08/11/15 22:32	1
Vanadium, Dissolved	0.81	J	1.0	0.30	ug/L		08/11/15 12:52	08/11/15 22:32	1
Zinc, Dissolved	2.8	U	20	2.8	ug/L		08/11/15 12:52	08/11/15 22:32	1

TestAmerica Savannah

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: Gold King Mine - Region 9

TestAmerica Job ID: 680-115432-2

**Client Sample ID: SJHB-080915-11**

**Lab Sample ID: 680-115432-8**

Date Collected: 08/09/15 11:31

Matrix: Water

Date Received: 08/11/15 09:39

## Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	1.0	0.40	ug/L		08/11/15 13:06	08/11/15 23:55	1
Arsenic	6.2		1.0	0.37	ug/L		08/11/15 13:06	08/11/15 23:55	1
Barium	520		2.0	0.14	ug/L		08/11/15 13:06	08/11/15 23:55	1
Beryllium	2.4		0.40	0.15	ug/L		08/11/15 13:06	08/11/15 23:55	1
Cadmium	0.086	U	0.20	0.086	ug/L		08/11/15 13:06	08/12/15 09:58	2
Chromium	22		2.0	1.0	ug/L		08/11/15 13:06	08/11/15 23:55	1
Cobalt	17		0.40	0.12	ug/L		08/11/15 13:06	08/11/15 23:55	1
Copper	42		1.0	0.50	ug/L		08/11/15 13:06	08/11/15 23:55	1
Lead	57		0.30	0.060	ug/L		08/11/15 13:06	08/11/15 23:55	1
Manganese	990		2.5	1.2	ug/L		08/11/15 13:06	08/11/15 23:55	1
Nickel	22		1.0	0.40	ug/L		08/11/15 13:06	08/11/15 23:55	1
Selenium	0.58	U	2.0	0.58	ug/L		08/11/15 13:06	08/11/15 23:55	1
Silver	0.38	J	1.0	0.10	ug/L		08/11/15 13:06	08/11/15 23:55	1
Thallium	0.38		0.20	0.10	ug/L		08/11/15 13:06	08/11/15 23:55	1
Vanadium	42		1.0	0.30	ug/L		08/11/15 13:06	08/11/15 23:55	1
Zinc	130		20	2.8	ug/L		08/11/15 13:06	08/11/15 23:55	1
Molybdenum	1.1		1.0	0.45	ug/L		08/11/15 13:06	08/11/15 23:55	1

## Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.40	U	1.0	0.40	ug/L		08/11/15 12:52	08/11/15 22:36	1
Arsenic, Dissolved	0.39	J	1.0	0.37	ug/L		08/11/15 12:52	08/11/15 22:36	1
Barium, Dissolved	70		2.0	0.14	ug/L		08/11/15 12:52	08/11/15 22:36	1
Beryllium, Dissolved	0.15	U	0.40	0.15	ug/L		08/11/15 12:52	08/11/15 22:36	1
Cadmium, Dissolved	0.043	U	0.10	0.043	ug/L		08/11/15 12:52	08/11/15 22:36	1
Chromium, Dissolved	1.0	U	2.0	1.0	ug/L		08/11/15 12:52	08/11/15 22:36	1
Cobalt, Dissolved	0.20	J	0.40	0.12	ug/L		08/11/15 12:52	08/11/15 22:36	1
Copper, Dissolved	1.8		1.0	0.50	ug/L		08/11/15 12:52	08/11/15 22:36	1
Lead, Dissolved	0.36		0.30	0.060	ug/L		08/11/15 12:52	08/11/15 22:36	1
Manganese, Dissolved	6.1		2.5	1.2	ug/L		08/11/15 12:52	08/11/15 22:36	1
Molybdenum, Dissolved	1.5		1.0	0.45	ug/L		08/11/15 12:52	08/11/15 22:36	1
Nickel, Dissolved	1.1		1.0	0.40	ug/L		08/11/15 12:52	08/11/15 22:36	1
Selenium, Dissolved	0.70	J	2.0	0.58	ug/L		08/11/15 12:52	08/11/15 22:36	1
Silver, Dissolved	0.10	U	1.0	0.10	ug/L		08/11/15 12:52	08/11/15 22:36	1
Thallium, Dissolved	0.10	U	0.20	0.10	ug/L		08/11/15 12:52	08/11/15 22:36	1
Vanadium, Dissolved	1.3		1.0	0.30	ug/L		08/11/15 12:52	08/11/15 22:36	1
Zinc, Dissolved	2.8	U	20	2.8	ug/L		08/11/15 12:52	08/11/15 22:36	1

TestAmerica Savannah

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: Gold King Mine - Region 9

TestAmerica Job ID: 680-115432-2

Client Sample ID: SJLP-080915-11

Lab Sample ID: 680-115432-9

Date Collected: 08/09/15 09:54

Matrix: Water

Date Received: 08/11/15 09:39

## Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U F1	1.0	0.40	ug/L		08/11/15 13:33	08/12/15 02:34	1
Arsenic	6.3		1.0	0.37	ug/L		08/11/15 13:33	08/12/15 02:34	1
Barium	520		2.0	0.14	ug/L		08/11/15 13:33	08/12/15 02:34	1
Beryllium	1.8		0.40	0.15	ug/L		08/11/15 13:33	08/12/15 02:34	1
Cadmium	0.19		0.10	0.043	ug/L		08/11/15 13:33	08/12/15 02:34	1
Chromium	16		2.0	1.0	ug/L		08/11/15 13:33	08/12/15 02:34	1
Cobalt	13		0.40	0.12	ug/L		08/11/15 13:33	08/12/15 02:34	1
Copper	33		1.0	0.50	ug/L		08/11/15 13:33	08/12/15 02:34	1
Lead	48		0.30	0.060	ug/L		08/11/15 13:33	08/12/15 02:34	1
Manganese	830		2.5	1.2	ug/L		08/11/15 13:33	08/12/15 02:34	1
Nickel	17		1.0	0.40	ug/L		08/11/15 13:33	08/12/15 02:34	1
Selenium	1.0	J B	2.0	0.58	ug/L		08/11/15 13:33	08/12/15 02:34	1
Silver	0.30	J	1.0	0.10	ug/L		08/11/15 13:33	08/12/15 02:34	1
Thallium	0.28		0.20	0.10	ug/L		08/11/15 13:33	08/12/15 02:34	1
Vanadium	34		1.0	0.30	ug/L		08/11/15 13:33	08/12/15 02:34	1
Zinc	110	F1	20	2.8	ug/L		08/11/15 13:33	08/12/15 02:34	1
Molybdenum	1.3		1.0	0.45	ug/L		08/11/15 13:33	08/12/15 02:34	1

## Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.40	U	1.0	0.40	ug/L		08/11/15 12:52	08/11/15 22:40	1
Arsenic, Dissolved	0.42	J	1.0	0.37	ug/L		08/11/15 12:52	08/11/15 22:40	1
Barium, Dissolved	72		2.0	0.14	ug/L		08/11/15 12:52	08/11/15 22:40	1
Beryllium, Dissolved	0.15	U	0.40	0.15	ug/L		08/11/15 12:52	08/11/15 22:40	1
Cadmium, Dissolved	0.043	U	0.10	0.043	ug/L		08/11/15 12:52	08/11/15 22:40	1
Chromium, Dissolved	1.0	U	2.0	1.0	ug/L		08/11/15 12:52	08/11/15 22:40	1
Cobalt, Dissolved	0.12	U	0.40	0.12	ug/L		08/11/15 12:52	08/11/15 22:40	1
Copper, Dissolved	1.7		1.0	0.50	ug/L		08/11/15 12:52	08/11/15 22:40	1
Lead, Dissolved	0.060	U	0.30	0.060	ug/L		08/11/15 12:52	08/11/15 22:40	1
Manganese, Dissolved	5.1		2.5	1.2	ug/L		08/11/15 12:52	08/11/15 22:40	1
Molybdenum, Dissolved	1.4		1.0	0.45	ug/L		08/11/15 12:52	08/11/15 22:40	1
Nickel, Dissolved	1.2		1.0	0.40	ug/L		08/11/15 12:52	08/11/15 22:40	1
Selenium, Dissolved	0.87	J	2.0	0.58	ug/L		08/11/15 12:52	08/11/15 22:40	1
Silver, Dissolved	0.10	U	1.0	0.10	ug/L		08/11/15 12:52	08/11/15 22:40	1
Thallium, Dissolved	0.10	U	0.20	0.10	ug/L		08/11/15 12:52	08/11/15 22:40	1
Vanadium, Dissolved	0.84	J	1.0	0.30	ug/L		08/11/15 12:52	08/11/15 22:40	1
Zinc, Dissolved	2.8	U	20	2.8	ug/L		08/11/15 12:52	08/11/15 22:40	1

TestAmerica Savannah

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: Gold King Mine - Region 9

TestAmerica Job ID: 680-115432-2

Client Sample ID: MECT-080915-11

Lab Sample ID: 680-115432-10

Date Collected: 08/09/15 14:05

Matrix: Water

Date Received: 08/11/15 09:39

## Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	1.0	0.40	ug/L		08/11/15 13:33	08/12/15 02:59	1
Arsenic	4.1		1.0	0.37	ug/L		08/11/15 13:33	08/12/15 02:59	1
Barium	180		2.0	0.14	ug/L		08/11/15 13:33	08/12/15 02:59	1
Beryllium	0.53		0.40	0.15	ug/L		08/11/15 13:33	08/12/15 02:59	1
Cadmium	0.13		0.10	0.043	ug/L		08/11/15 13:33	08/12/15 02:59	1
Chromium	5.9		2.0	1.0	ug/L		08/11/15 13:33	08/12/15 02:59	1
Cobalt	3.6		0.40	0.12	ug/L		08/11/15 13:33	08/12/15 02:59	1
Copper	9.6		1.0	0.50	ug/L		08/11/15 13:33	08/12/15 02:59	1
Lead	7.9		0.30	0.060	ug/L		08/11/15 13:33	08/12/15 02:59	1
Manganese	360		2.5	1.2	ug/L		08/11/15 13:33	08/12/15 02:59	1
Nickel	9.8		1.0	0.40	ug/L		08/11/15 13:33	08/12/15 02:59	1
Selenium	2.0	B	2.0	0.58	ug/L		08/11/15 13:33	08/12/15 02:59	1
Silver	0.10	U	1.0	0.10	ug/L		08/11/15 13:33	08/12/15 02:59	1
Thallium	0.16	J	0.20	0.10	ug/L		08/11/15 13:33	08/12/15 02:59	1
Vanadium	17		1.0	0.30	ug/L		08/11/15 13:33	08/12/15 02:59	1
Zinc	29		20	2.8	ug/L		08/11/15 13:33	08/12/15 02:59	1
Molybdenum	3.1		1.0	0.45	ug/L		08/11/15 13:33	08/12/15 02:59	1

## Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.40	U	1.0	0.40	ug/L		08/11/15 12:52	08/11/15 22:44	1
Arsenic, Dissolved	1.3		1.0	0.37	ug/L		08/11/15 12:52	08/11/15 22:44	1
Barium, Dissolved	85		2.0	0.14	ug/L		08/11/15 12:52	08/11/15 22:44	1
Beryllium, Dissolved	0.15	U	0.40	0.15	ug/L		08/11/15 12:52	08/11/15 22:44	1
Cadmium, Dissolved	0.043	U	0.10	0.043	ug/L		08/11/15 12:52	08/11/15 22:44	1
Chromium, Dissolved	1.0	U	2.0	1.0	ug/L		08/11/15 12:52	08/11/15 22:44	1
Cobalt, Dissolved	0.50		0.40	0.12	ug/L		08/11/15 12:52	08/11/15 22:44	1
Copper, Dissolved	2.6		1.0	0.50	ug/L		08/11/15 12:52	08/11/15 22:44	1
Lead, Dissolved	0.072	J	0.30	0.060	ug/L		08/11/15 12:52	08/11/15 22:44	1
Manganese, Dissolved	4.2		2.5	1.2	ug/L		08/11/15 12:52	08/11/15 22:44	1
Molybdenum, Dissolved	3.0		1.0	0.45	ug/L		08/11/15 12:52	08/11/15 22:44	1
Nickel, Dissolved	3.4		1.0	0.40	ug/L		08/11/15 12:52	08/11/15 22:44	1
Selenium, Dissolved	1.3	J	2.0	0.58	ug/L		08/11/15 12:52	08/11/15 22:44	1
Silver, Dissolved	0.10	U	1.0	0.10	ug/L		08/11/15 12:52	08/11/15 22:44	1
Thallium, Dissolved	0.10	U	0.20	0.10	ug/L		08/11/15 12:52	08/11/15 22:44	1
Vanadium, Dissolved	2.5		1.0	0.30	ug/L		08/11/15 12:52	08/11/15 22:44	1
Zinc, Dissolved	2.8	U	20	2.8	ug/L		08/11/15 12:52	08/11/15 22:44	1

TestAmerica Savannah



# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: Gold King Mine - Region 9

TestAmerica Job ID: 680-115432-2

Client Sample ID: SJME-080915-11

Lab Sample ID: 680-115432-11

Date Collected: 08/09/15 16:35

Matrix: Water

Date Received: 08/11/15 09:39

## Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	1.0	0.40	ug/L		08/11/15 13:33	08/12/15 03:12	1
Arsenic	11		1.0	0.37	ug/L		08/11/15 13:33	08/12/15 03:12	1
Barium	860		2.0	0.14	ug/L		08/11/15 13:33	08/12/15 03:12	1
Beryllium	3.7		0.40	0.15	ug/L		08/11/15 13:33	08/12/15 03:12	1
Cadmium	0.34		0.10	0.043	ug/L		08/11/15 13:33	08/12/15 03:12	1
Chromium	28		2.0	1.0	ug/L		08/11/15 13:33	08/12/15 03:12	1
Cobalt	23		0.40	0.12	ug/L		08/11/15 13:33	08/12/15 03:12	1
Copper	54		1.0	0.50	ug/L		08/11/15 13:33	08/12/15 03:12	1
Lead	46		0.30	0.060	ug/L		08/11/15 13:33	08/12/15 03:12	1
Manganese	1200		2.5	1.2	ug/L		08/11/15 13:33	08/12/15 03:12	1
Nickel	36		1.0	0.40	ug/L		08/11/15 13:33	08/12/15 03:12	1
Selenium	1.1	J B	2.0	0.58	ug/L		08/11/15 13:33	08/12/15 03:12	1
Silver	0.26	J	1.0	0.10	ug/L		08/11/15 13:33	08/12/15 03:12	1
Thallium	0.71		0.20	0.10	ug/L		08/11/15 13:33	08/12/15 03:12	1
Vanadium	70		1.0	0.30	ug/L		08/11/15 13:33	08/12/15 03:12	1
Zinc	160		20	2.8	ug/L		08/11/15 13:33	08/12/15 03:12	1
Molybdenum	1.7		1.0	0.45	ug/L		08/11/15 13:33	08/12/15 03:12	1

## Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.40	U	1.0	0.40	ug/L		08/11/15 12:52	08/11/15 22:49	1
Arsenic, Dissolved	1.1		1.0	0.37	ug/L		08/11/15 12:52	08/11/15 22:49	1
Barium, Dissolved	97		2.0	0.14	ug/L		08/11/15 12:52	08/11/15 22:49	1
Beryllium, Dissolved	0.15	U	0.40	0.15	ug/L		08/11/15 12:52	08/11/15 22:49	1
Cadmium, Dissolved	0.043	U	0.10	0.043	ug/L		08/11/15 12:52	08/11/15 22:49	1
Chromium, Dissolved	2.5		2.0	1.0	ug/L		08/11/15 12:52	08/11/15 22:49	1
Cobalt, Dissolved	0.87		0.40	0.12	ug/L		08/11/15 12:52	08/11/15 22:49	1
Copper, Dissolved	3.9		1.0	0.50	ug/L		08/11/15 12:52	08/11/15 22:49	1
Lead, Dissolved	1.5		0.30	0.060	ug/L		08/11/15 12:52	08/11/15 22:49	1
Manganese, Dissolved	34		2.5	1.2	ug/L		08/11/15 12:52	08/11/15 22:49	1
Molybdenum, Dissolved	2.1		1.0	0.45	ug/L		08/11/15 12:52	08/11/15 22:49	1
Nickel, Dissolved	2.2		1.0	0.40	ug/L		08/11/15 12:52	08/11/15 22:49	1
Selenium, Dissolved	0.98	J	2.0	0.58	ug/L		08/11/15 12:52	08/11/15 22:49	1
Silver, Dissolved	0.10	U	1.0	0.10	ug/L		08/11/15 12:52	08/11/15 22:49	1
Thallium, Dissolved	0.10	U	0.20	0.10	ug/L		08/11/15 12:52	08/11/15 22:49	1
Vanadium, Dissolved	5.9		1.0	0.30	ug/L		08/11/15 12:52	08/11/15 22:49	1
Zinc, Dissolved	7.1	J	20	2.8	ug/L		08/11/15 12:52	08/11/15 22:49	1

TestAmerica Savannah

# Client Sample Results

Client: Weston Solutions, Inc.  
Project/Site: Gold King Mine - Region 9

TestAmerica Job ID: 680-115432-2

Client Sample ID: SJME-080915-12

Lab Sample ID: 680-115432-12

Date Collected: 08/09/15 16:35

Matrix: Water

Date Received: 08/11/15 09:39

## Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	1.0	0.40	ug/L		08/11/15 13:33	08/12/15 03:16	1
Arsenic	10		1.0	0.37	ug/L		08/11/15 13:33	08/12/15 03:16	1
Barium	880		2.0	0.14	ug/L		08/11/15 13:33	08/12/15 03:16	1
Beryllium	3.7		0.40	0.15	ug/L		08/11/15 13:33	08/12/15 03:16	1
Cadmium	0.33		0.10	0.043	ug/L		08/11/15 13:33	08/12/15 03:16	1
Chromium	28		2.0	1.0	ug/L		08/11/15 13:33	08/12/15 03:16	1
Cobalt	24		0.40	0.12	ug/L		08/11/15 13:33	08/12/15 03:16	1
Copper	55		1.0	0.50	ug/L		08/11/15 13:33	08/12/15 03:16	1
Lead	46		0.30	0.060	ug/L		08/11/15 13:33	08/12/15 03:16	1
Manganese	1300		2.5	1.2	ug/L		08/11/15 13:33	08/12/15 03:16	1
Nickel	37		1.0	0.40	ug/L		08/11/15 13:33	08/12/15 03:16	1
Selenium	0.63	J B	2.0	0.58	ug/L		08/11/15 13:33	08/12/15 03:16	1
Silver	0.27	J	1.0	0.10	ug/L		08/11/15 13:33	08/12/15 03:16	1
Thallium	0.68		0.20	0.10	ug/L		08/11/15 13:33	08/12/15 03:16	1
Vanadium	66		1.0	0.30	ug/L		08/11/15 13:33	08/12/15 03:16	1
Zinc	160		20	2.8	ug/L		08/11/15 13:33	08/12/15 03:16	1
Molybdenum	1.4		1.0	0.45	ug/L		08/11/15 13:33	08/12/15 03:16	1

## Method: 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony, Dissolved	0.40	U	1.0	0.40	ug/L		08/11/15 12:52	08/11/15 22:53	1
Arsenic, Dissolved	1.0		1.0	0.37	ug/L		08/11/15 12:52	08/11/15 22:53	1
Barium, Dissolved	120		2.0	0.14	ug/L		08/11/15 12:52	08/11/15 22:53	1
Beryllium, Dissolved	0.26	J	0.40	0.15	ug/L		08/11/15 12:52	08/11/15 22:53	1
Cadmium, Dissolved	0.043	U	0.10	0.043	ug/L		08/11/15 12:52	08/11/15 22:53	1
Chromium, Dissolved	5.0		2.0	1.0	ug/L		08/11/15 12:52	08/11/15 22:53	1
Cobalt, Dissolved	1.6		0.40	0.12	ug/L		08/11/15 12:52	08/11/15 22:53	1
Copper, Dissolved	5.1		1.0	0.50	ug/L		08/11/15 12:52	08/11/15 22:53	1
Lead, Dissolved	2.9		0.30	0.060	ug/L		08/11/15 12:52	08/11/15 22:53	1
Manganese, Dissolved	67		2.5	1.2	ug/L		08/11/15 12:52	08/11/15 22:53	1
Molybdenum, Dissolved	2.0		1.0	0.45	ug/L		08/11/15 12:52	08/11/15 22:53	1
Nickel, Dissolved	3.2		1.0	0.40	ug/L		08/11/15 12:52	08/11/15 22:53	1
Selenium, Dissolved	0.84	J	2.0	0.58	ug/L		08/11/15 12:52	08/11/15 22:53	1
Silver, Dissolved	0.10	U	1.0	0.10	ug/L		08/11/15 12:52	08/11/15 22:53	1
Thallium, Dissolved	0.10	U	0.20	0.10	ug/L		08/11/15 12:52	08/11/15 22:53	1
Vanadium, Dissolved	9.6		1.0	0.30	ug/L		08/11/15 12:52	08/11/15 22:53	1
Zinc, Dissolved	12	J	20	2.8	ug/L		08/11/15 12:52	08/11/15 22:53	1

TestAmerica Savannah

# QC Sample Results

Client: Weston Solutions, Inc.  
Project/Site: Gold King Mine - Region 9

TestAmerica Job ID: 680-115432-2

## Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 680-395499/1-A  
Matrix: Water  
Analysis Batch: 395685

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 395499

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	1.0	0.40	ug/L		08/11/15 12:52	08/11/15 21:27	1
Antimony, Dissolved	0.40	U	1.0	0.40	ug/L		08/11/15 12:52	08/11/15 21:27	1
Arsenic	0.37	U	1.0	0.37	ug/L		08/11/15 12:52	08/11/15 21:27	1
Arsenic, Dissolved	0.37	U	1.0	0.37	ug/L		08/11/15 12:52	08/11/15 21:27	1
Barium	0.14	U	2.0	0.14	ug/L		08/11/15 12:52	08/11/15 21:27	1
Barium, Dissolved	0.14	U	2.0	0.14	ug/L		08/11/15 12:52	08/11/15 21:27	1
Beryllium	0.15	U	0.40	0.15	ug/L		08/11/15 12:52	08/11/15 21:27	1
Beryllium, Dissolved	0.15	U	0.40	0.15	ug/L		08/11/15 12:52	08/11/15 21:27	1
Cadmium	0.043	U	0.10	0.043	ug/L		08/11/15 12:52	08/11/15 21:27	1
Cadmium, Dissolved	0.043	U	0.10	0.043	ug/L		08/11/15 12:52	08/11/15 21:27	1
Chromium	1.0	U	2.0	1.0	ug/L		08/11/15 12:52	08/11/15 21:27	1
Chromium, Dissolved	1.0	U	2.0	1.0	ug/L		08/11/15 12:52	08/11/15 21:27	1
Cobalt	0.12	U	0.40	0.12	ug/L		08/11/15 12:52	08/11/15 21:27	1
Cobalt, Dissolved	0.12	U	0.40	0.12	ug/L		08/11/15 12:52	08/11/15 21:27	1
Copper	0.50	U	1.0	0.50	ug/L		08/11/15 12:52	08/11/15 21:27	1
Copper, Dissolved	0.50	U	1.0	0.50	ug/L		08/11/15 12:52	08/11/15 21:27	1
Lead	0.060	U	0.30	0.060	ug/L		08/11/15 12:52	08/11/15 21:27	1
Lead, Dissolved	0.060	U	0.30	0.060	ug/L		08/11/15 12:52	08/11/15 21:27	1
Manganese	1.2	U	2.5	1.2	ug/L		08/11/15 12:52	08/11/15 21:27	1
Manganese, Dissolved	1.2	U	2.5	1.2	ug/L		08/11/15 12:52	08/11/15 21:27	1
Nickel	0.40	U	1.0	0.40	ug/L		08/11/15 12:52	08/11/15 21:27	1
Nickel, Dissolved	0.40	U	1.0	0.40	ug/L		08/11/15 12:52	08/11/15 21:27	1
Selenium	0.58	U	2.0	0.58	ug/L		08/11/15 12:52	08/11/15 21:27	1
Selenium, Dissolved	0.58	U	2.0	0.58	ug/L		08/11/15 12:52	08/11/15 21:27	1
Silver	0.10	U	1.0	0.10	ug/L		08/11/15 12:52	08/11/15 21:27	1
Silver, Dissolved	0.10	U	1.0	0.10	ug/L		08/11/15 12:52	08/11/15 21:27	1
Thallium	0.10	U	0.20	0.10	ug/L		08/11/15 12:52	08/11/15 21:27	1
Thallium, Dissolved	0.10	U	0.20	0.10	ug/L		08/11/15 12:52	08/11/15 21:27	1
Vanadium	0.30	U	1.0	0.30	ug/L		08/11/15 12:52	08/11/15 21:27	1
Vanadium, Dissolved	0.30	U	1.0	0.30	ug/L		08/11/15 12:52	08/11/15 21:27	1
Molybdenum	0.45	U	1.0	0.45	ug/L		08/11/15 12:52	08/11/15 21:27	1
Molybdenum, Dissolved	0.45	U	1.0	0.45	ug/L		08/11/15 12:52	08/11/15 21:27	1
Zinc	2.8	U	20	2.8	ug/L		08/11/15 12:52	08/11/15 21:27	1
Zinc, Dissolved	2.8	U	20	2.8	ug/L		08/11/15 12:52	08/11/15 21:27	1

Lab Sample ID: LCS 680-395499/2-A  
Matrix: Water  
Analysis Batch: 395685

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 395499  
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	20.0	21.8		ug/L		109	85 - 115
Antimony, Dissolved	20.0	21.8		ug/L		109	85 - 115
Arsenic	40.0	40.2		ug/L		100	85 - 115
Arsenic, Dissolved	40.0	40.2		ug/L		100	85 - 115
Barium	40.0	40.9		ug/L		102	85 - 115
Barium, Dissolved	40.0	40.9		ug/L		102	85 - 115
Beryllium	20.0	20.6		ug/L		103	85 - 115
Beryllium, Dissolved	20.0	20.6		ug/L		103	85 - 115

TestAmerica Savannah

# QC Sample Results

Client: Weston Solutions, Inc.  
Project/Site: Gold King Mine - Region 9

TestAmerica Job ID: 680-115432-2

## Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-395499/2-A  
Matrix: Water  
Analysis Batch: 395685

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 395499  
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Cadmium	20.0	21.3		ug/L		106	85 - 115
Cadmium, Dissolved	20.0	21.3		ug/L		106	85 - 115
Chromium	40.0	40.1		ug/L		100	85 - 115
Chromium, Dissolved	40.0	40.1		ug/L		100	85 - 115
Cobalt	20.0	20.6		ug/L		103	85 - 115
Cobalt, Dissolved	20.0	20.6		ug/L		103	85 - 115
Copper	40.0	39.0		ug/L		98	85 - 115
Copper, Dissolved	40.0	39.0		ug/L		98	85 - 115
Lead	200	192		ug/L		96	85 - 115
Lead, Dissolved	200	192		ug/L		96	85 - 115
Manganese	200	191		ug/L		95	85 - 115
Manganese, Dissolved	200	191		ug/L		95	85 - 115
Nickel	40.0	39.8		ug/L		99	85 - 115
Nickel, Dissolved	40.0	39.8		ug/L		99	85 - 115
Selenium	40.0	39.9		ug/L		100	85 - 115
Selenium, Dissolved	40.0	39.9		ug/L		100	85 - 115
Silver	20.0	20.4		ug/L		102	85 - 115
Silver, Dissolved	20.0	20.4		ug/L		102	85 - 115
Thallium	16.0	15.7		ug/L		98	85 - 115
Thallium, Dissolved	16.0	15.7		ug/L		98	85 - 115
Vanadium	40.0	38.3		ug/L		96	85 - 115
Vanadium, Dissolved	40.0	38.3		ug/L		96	85 - 115
Molybdenum	40.0	40.1		ug/L		100	85 - 115
Molybdenum, Dissolved	40.0	40.1		ug/L		100	85 - 115
Zinc	40.0	40.1		ug/L		100	85 - 115
Zinc, Dissolved	40.0	40.1		ug/L		100	85 - 115

Lab Sample ID: 680-115432-1 MS  
Matrix: Water  
Analysis Batch: 395685

Client Sample ID: SJBB-080915-11  
Prep Type: Total/NA  
Prep Batch: 395499  
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	0.40	U F1	20.0	3.24	F1	ug/L		16	70 - 130
Arsenic	9.2		40.0	47.6		ug/L		96	70 - 130
Barium	720		40.0	717	4	ug/L		3	70 - 130
Beryllium	3.1		20.0	24.3		ug/L		106	70 - 130
Chromium	27		40.0	62.0		ug/L		88	70 - 130
Cobalt	22		20.0	40.6		ug/L		94	70 - 130
Copper	51		40.0	83.4		ug/L		81	70 - 130
Lead	40		200	225		ug/L		92	70 - 130
Manganese	1200		200	1310	4	ug/L		63	70 - 130
Nickel	32		40.0	68.4		ug/L		91	70 - 130
Selenium	0.58	U	40.0	31.3		ug/L		78	70 - 130
Silver	0.20	J	20.0	20.3		ug/L		100	70 - 130
Thallium	0.57		16.0	16.4		ug/L		99	70 - 130
Vanadium	68		40.0	106		ug/L		94	70 - 130
Molybdenum	1.5	F1	40.0	24.2	F1	ug/L		57	70 - 130
Zinc	150	F1	40.0	185		ug/L		77	70 - 130

TestAmerica Savannah

# QC Sample Results

Client: Weston Solutions, Inc.  
Project/Site: Gold King Mine - Region 9

TestAmerica Job ID: 680-115432-2

## Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-115432-1 MS

Matrix: Water

Analysis Batch: 395685

Client Sample ID: SJBB-080915-11

Prep Type: Total/NA

Prep Batch: 395499

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.12	J	20.0	19.7		ug/L		98	70 - 130

Lab Sample ID: 680-115432-1 MSD

Matrix: Water

Analysis Batch: 395685

Client Sample ID: SJBB-080915-11

Prep Type: Total/NA

Prep Batch: 395499

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.40	U F1	20.0	3.47	F1	ug/L		17	70 - 130	7	20
Arsenic	9.2		40.0	46.8		ug/L		94	70 - 130	2	20
Barium	720		40.0	703	4	ug/L		-32	70 - 130	2	20
Beryllium	3.1		20.0	24.7		ug/L		108	70 - 130	2	20
Chromium	27		40.0	60.6		ug/L		84	70 - 130	2	20
Cobalt	22		20.0	40.4		ug/L		93	70 - 130	0	20
Copper	51		40.0	83.5		ug/L		81	70 - 130	0	20
Lead	40		200	223		ug/L		91	70 - 130	1	20
Manganese	1200		200	1330	4	ug/L		75	70 - 130	2	20
Nickel	32		40.0	67.8		ug/L		90	70 - 130	1	20
Selenium	0.58	U	40.0	33.1		ug/L		83	70 - 130	6	20
Silver	0.20	J	20.0	20.4		ug/L		101	70 - 130	0	20
Thallium	0.57		16.0	16.4		ug/L		99	70 - 130	0	20
Vanadium	68		40.0	103		ug/L		85	70 - 130	3	20
Molybdenum	1.5	F1	40.0	23.4	F1	ug/L		55	70 - 130	3	20
Zinc	150	F1	40.0	181	F1	ug/L		67	70 - 130	2	20

Lab Sample ID: 680-115432-1 MSD

Matrix: Water

Analysis Batch: 395685

Client Sample ID: SJBB-080915-11

Prep Type: Total/NA

Prep Batch: 395499

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	0.12	J	20.0	19.4		ug/L		96	70 - 130	2	20

Lab Sample ID: 680-115432-1 DU

Matrix: Water

Analysis Batch: 395685

Client Sample ID: SJBB-080915-11

Prep Type: Total/NA

Prep Batch: 395499

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	0.40	U F1	0.40	U	ug/L		NC	20
Arsenic	9.2		9.53		ug/L		4	20
Barium	720		684		ug/L		5	20
Beryllium	3.1		3.06		ug/L		1	20
Chromium	27		26.6		ug/L		1	20
Cobalt	22		21.5		ug/L		2	20
Copper	51		49.6		ug/L		3	20
Lead	40		38.4		ug/L		5	20
Manganese	1200		1170		ug/L		0.7	20
Nickel	32		30.6		ug/L		4	20
Selenium	0.58	U	0.58	U	ug/L		NC	20
Silver	0.20	J	0.194	J	ug/L		2	20
Thallium	0.57		0.557		ug/L		2	20

TestAmerica Savannah

# QC Sample Results

Client: Weston Solutions, Inc.  
Project/Site: Gold King Mine - Region 9

TestAmerica Job ID: 680-115432-2

## Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-115432-1 DU

Matrix: Water

Analysis Batch: 395685

Client Sample ID: SJBB-080915-11

Prep Type: Total/NA

Prep Batch: 395499

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Vanadium	68		68.8		ug/L		0.6	20
Molybdenum	1.5	F1	1.61		ug/L		6	20
Zinc	150	F1	150		ug/L		3	20

Lab Sample ID: 680-115432-1 DU

Matrix: Water

Analysis Batch: 395685

Client Sample ID: SJBB-080915-11

Prep Type: Total/NA

Prep Batch: 395499

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Cadmium	0.12	J	0.086	U	ug/L		NC	20

Lab Sample ID: MB 680-395507/1-A

Matrix: Water

Analysis Batch: 395685

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 395507

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.40	U	1.0	0.40	ug/L		08/11/15 13:33	08/12/15 08:26	1
Arsenic	0.37	U	1.0	0.37	ug/L		08/11/15 13:33	08/12/15 08:26	1
Barium	0.14	U	2.0	0.14	ug/L		08/11/15 13:33	08/12/15 08:26	1
Beryllium	0.15	U	0.40	0.15	ug/L		08/11/15 13:33	08/12/15 08:26	1
Cadmium	0.043	U	0.10	0.043	ug/L		08/11/15 13:33	08/12/15 08:26	1
Chromium	1.0	U	2.0	1.0	ug/L		08/11/15 13:33	08/12/15 08:26	1
Cobalt	0.12	U	0.40	0.12	ug/L		08/11/15 13:33	08/12/15 08:26	1
Copper	0.50	U	1.0	0.50	ug/L		08/11/15 13:33	08/12/15 08:26	1
Lead	0.060	U	0.30	0.060	ug/L		08/11/15 13:33	08/12/15 08:26	1
Manganese	1.2	U	2.5	1.2	ug/L		08/11/15 13:33	08/12/15 08:26	1
Nickel	0.40	U	1.0	0.40	ug/L		08/11/15 13:33	08/12/15 08:26	1
Selenium	1.51	J	2.0	0.58	ug/L		08/11/15 13:33	08/12/15 08:26	1
Silver	0.10	U	1.0	0.10	ug/L		08/11/15 13:33	08/12/15 08:26	1
Thallium	0.10	U	0.20	0.10	ug/L		08/11/15 13:33	08/12/15 08:26	1
Vanadium	0.30	U	1.0	0.30	ug/L		08/11/15 13:33	08/12/15 08:26	1
Molybdenum	0.45	U	1.0	0.45	ug/L		08/11/15 13:33	08/12/15 08:26	1
Zinc	2.8	U	20	2.8	ug/L		08/11/15 13:33	08/12/15 08:26	1

Lab Sample ID: LCS 680-395507/2-A

Matrix: Water

Analysis Batch: 395685

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 395507

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	20.0	21.5		ug/L		107	85 - 115
Arsenic	40.0	39.5		ug/L		99	85 - 115
Barium	40.0	40.5		ug/L		101	85 - 115
Beryllium	20.0	20.5		ug/L		102	85 - 115
Cadmium	20.0	20.9		ug/L		105	85 - 115
Chromium	40.0	39.8		ug/L		100	85 - 115
Cobalt	20.0	19.9		ug/L		99	85 - 115
Copper	40.0	37.6		ug/L		94	85 - 115
Lead	200	191		ug/L		95	85 - 115
Manganese	200	184		ug/L		92	85 - 115

TestAmerica Savannah

# QC Sample Results

Client: Weston Solutions, Inc.  
Project/Site: Gold King Mine - Region 9

TestAmerica Job ID: 680-115432-2

## Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-395507/2-A  
Matrix: Water  
Analysis Batch: 395685

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 395507  
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Nickel	40.0	38.6		ug/L		97	85 - 115
Selenium	40.0	38.1		ug/L		95	85 - 115
Silver	20.0	19.7		ug/L		99	85 - 115
Thallium	16.0	16.2		ug/L		101	85 - 115
Vanadium	40.0	36.6		ug/L		91	85 - 115
Molybdenum	40.0	39.0		ug/L		97	85 - 115
Zinc	40.0	39.6		ug/L		99	85 - 115

Lab Sample ID: 680-115432-9 MS  
Matrix: Water  
Analysis Batch: 395685

Client Sample ID: SJLP-080915-11  
Prep Type: Total/NA  
Prep Batch: 395507  
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	0.40	U F1	20.0	7.48	F1	ug/L		37	70 - 130
Arsenic	6.3		40.0	44.9		ug/L		96	70 - 130
Barium	520		40.0	523	4	ug/L		17	70 - 130
Beryllium	1.8		20.0	22.9		ug/L		105	70 - 130
Cadmium	0.19		20.0	19.8		ug/L		98	70 - 130
Chromium	16		40.0	52.4		ug/L		90	70 - 130
Cobalt	13		20.0	30.6		ug/L		89	70 - 130
Copper	33		40.0	65.7		ug/L		82	70 - 130
Lead	48		200	230		ug/L		91	70 - 130
Manganese	830		200	961	4	ug/L		65	70 - 130
Nickel	17		40.0	52.3		ug/L		89	70 - 130
Selenium	1.0	J B	40.0	36.7		ug/L		89	70 - 130
Silver	0.30	J	20.0	20.3		ug/L		100	70 - 130
Thallium	0.28		16.0	16.3		ug/L		100	70 - 130
Vanadium	34		40.0	66.4		ug/L		81	70 - 130
Molybdenum	1.3		40.0	31.3		ug/L		75	70 - 130
Zinc	110	F1	40.0	141		ug/L		74	70 - 130

Lab Sample ID: 680-115432-9 MSD  
Matrix: Water  
Analysis Batch: 395685

Client Sample ID: SJLP-080915-11  
Prep Type: Total/NA  
Prep Batch: 395507  
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	0.40	U F1	20.0	7.85	F1	ug/L		39	70 - 130	5	20
Arsenic	6.3		40.0	44.8		ug/L		96	70 - 130	0	20
Barium	520		40.0	458	4	ug/L		-145	70 - 130	13	20
Beryllium	1.8		20.0	23.2		ug/L		107	70 - 130	1	20
Cadmium	0.19		20.0	19.8		ug/L		98	70 - 130	0	20
Chromium	16		40.0	52.4		ug/L		90	70 - 130	0	20
Cobalt	13		20.0	30.7		ug/L		89	70 - 130	0	20
Copper	33		40.0	64.7		ug/L		80	70 - 130	2	20
Lead	48		200	233		ug/L		93	70 - 130	1	20
Manganese	830		200	963	4	ug/L		67	70 - 130	0	20
Nickel	17		40.0	52.6		ug/L		90	70 - 130	1	20
Selenium	1.0	J B	40.0	36.6		ug/L		89	70 - 130	0	20
Silver	0.30	J	20.0	20.4		ug/L		101	70 - 130	0	20

TestAmerica Savannah

# QC Sample Results

Client: Weston Solutions, Inc.  
Project/Site: Gold King Mine - Region 9

TestAmerica Job ID: 680-115432-2

## Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-115432-9 MSD

Matrix: Water

Analysis Batch: 395685

Client Sample ID: SJLP-080915-11

Prep Type: Total/NA

Prep Batch: 395507

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Thallium	0.28		16.0	16.4		ug/L		101	70 - 130	1	20
Vanadium	34		40.0	66.3		ug/L		81	70 - 130	0	20
Molybdenum	1.3		40.0	32.6		ug/L		78	70 - 130	4	20
Zinc	110	F1	40.0	138	F1	ug/L		65	70 - 130	3	20

Lab Sample ID: 680-115432-9 DU

Matrix: Water

Analysis Batch: 395685

Client Sample ID: SJLP-080915-11

Prep Type: Total/NA

Prep Batch: 395507

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	0.40	U F1	0.40	U	ug/L		NC	20
Arsenic	6.3		5.30		ug/L		17	20
Barium	520		388	F3	ug/L		28	20
Beryllium	1.8		1.61		ug/L		11	20
Cadmium	0.19		0.127	F5	ug/L		38	20
Chromium	16		14.9		ug/L		10	20
Cobalt	13		11.2		ug/L		13	20
Copper	33		29.6		ug/L		11	20
Lead	48		43.7		ug/L		9	20
Manganese	830		782		ug/L		6	20
Nickel	17		14.1		ug/L		16	20
Selenium	1.0	J B	1.38	J F5	ug/L		30	20
Silver	0.30	J	0.264	J	ug/L		12	20
Thallium	0.28		0.241		ug/L		13	20
Vanadium	34		30.1		ug/L		12	20
Molybdenum	1.3		1.33		ug/L		0.8	20
Zinc	110	F1	99.6		ug/L		11	20

Lab Sample ID: 680-115432-1 MS

Matrix: Water

Analysis Batch: 395685

Client Sample ID: SJBB-080915-11

Prep Type: Dissolved

Prep Batch: 395499

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony, Dissolved	0.40	U	20.0	23.1		ug/L		115	70 - 130		
Arsenic, Dissolved	1.1		40.0	43.5		ug/L		106	70 - 130		
Barium, Dissolved	74		40.0	108		ug/L		87	70 - 130		
Beryllium, Dissolved	0.15	U	20.0	21.3		ug/L		107	70 - 130		
Cadmium, Dissolved	0.043	U	20.0	21.3		ug/L		106	70 - 130		
Chromium, Dissolved	1.0	U	40.0	40.5		ug/L		101	70 - 130		
Cobalt, Dissolved	0.13	J	20.0	20.4		ug/L		101	70 - 130		
Copper, Dissolved	2.3		40.0	39.6		ug/L		93	70 - 130		
Lead, Dissolved	0.060	U	200	193		ug/L		96	70 - 130		
Manganese, Dissolved	1.2	U	200	191		ug/L		95	70 - 130		
Nickel, Dissolved	1.2		40.0	39.6		ug/L		96	70 - 130		
Selenium, Dissolved	0.86	J	40.0	42.4		ug/L		104	70 - 130		
Silver, Dissolved	0.10	U	20.0	20.1		ug/L		101	70 - 130		
Thallium, Dissolved	0.10	U	16.0	16.3		ug/L		102	70 - 130		
Vanadium, Dissolved	2.8		40.0	41.6		ug/L		97	70 - 130		
Molybdenum, Dissolved	2.1		40.0	44.0		ug/L		105	70 - 130		

TestAmerica Savannah



# QC Sample Results

Client: Weston Solutions, Inc.  
Project/Site: Gold King Mine - Region 9

TestAmerica Job ID: 680-115432-2

## Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: 680-115432-1 MS

Matrix: Water

Analysis Batch: 395685

Client Sample ID: SJBB-080915-11

Prep Type: Dissolved

Prep Batch: 395499

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc, Dissolved	2.8	U	40.0	42.9		ug/L		107	70 - 130

Lab Sample ID: 680-115432-1 MSD

Matrix: Water

Analysis Batch: 395685

Client Sample ID: SJBB-080915-11

Prep Type: Dissolved

Prep Batch: 395499

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Antimony, Dissolved	0.40	U	20.0	23.2		ug/L		116	70 - 130	0	20
Arsenic, Dissolved	1.1		40.0	43.9		ug/L		107	70 - 130	1	20
Barium, Dissolved	74		40.0	112		ug/L		95	70 - 130	3	20
Beryllium, Dissolved	0.15	U	20.0	21.4		ug/L		107	70 - 130	0	20
Cadmium, Dissolved	0.043	U	20.0	21.9		ug/L		110	70 - 130	3	20
Chromium, Dissolved	1.0	U	40.0	41.1		ug/L		103	70 - 130	1	20
Cobalt, Dissolved	0.13	J	20.0	20.5		ug/L		102	70 - 130	0	20
Copper, Dissolved	2.3		40.0	40.3		ug/L		95	70 - 130	2	20
Lead, Dissolved	0.060	U	200	197		ug/L		99	70 - 130	2	20
Manganese, Dissolved	1.2	U	200	193		ug/L		96	70 - 130	1	20
Nickel, Dissolved	1.2		40.0	40.3		ug/L		98	70 - 130	2	20
Selenium, Dissolved	0.86	J	40.0	44.1		ug/L		108	70 - 130	4	20
Silver, Dissolved	0.10	U	20.0	20.3		ug/L		101	70 - 130	1	20
Thallium, Dissolved	0.10	U	16.0	16.7		ug/L		105	70 - 130	3	20
Vanadium, Dissolved	2.8		40.0	41.7		ug/L		97	70 - 130	0	20
Molybdenum, Dissolved	2.1		40.0	44.2		ug/L		105	70 - 130	0	20
Zinc, Dissolved	2.8	U	40.0	42.3		ug/L		106	70 - 130	1	20

Lab Sample ID: 680-115432-1 DU

Matrix: Water

Analysis Batch: 395685

Client Sample ID: SJBB-080915-11

Prep Type: Dissolved

Prep Batch: 395499

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony, Dissolved	0.40	U	0.40	U	ug/L		NC	20
Arsenic, Dissolved	1.1		1.08		ug/L		2	20
Barium, Dissolved	74		73.1		ug/L		1	20
Beryllium, Dissolved	0.15	U	0.15	U	ug/L		NC	20
Cadmium, Dissolved	0.043	U	0.043	U	ug/L		NC	20
Chromium, Dissolved	1.0	U	1.0	U	ug/L		NC	20
Cobalt, Dissolved	0.13	J	0.127	J	ug/L		0	20
Copper, Dissolved	2.3		2.21		ug/L		5	20
Lead, Dissolved	0.060	U	0.060	U	ug/L		NC	20
Manganese, Dissolved	1.2	U	1.2	U	ug/L		NC	20
Nickel, Dissolved	1.2		1.75	F5	ug/L		37	20
Selenium, Dissolved	0.86	J	1.11	J F5	ug/L		25	20
Silver, Dissolved	0.10	U	0.10	U	ug/L		NC	20
Thallium, Dissolved	0.10	U	0.10	U	ug/L		NC	20
Vanadium, Dissolved	2.8		2.77		ug/L		3	20
Molybdenum, Dissolved	2.1		2.15		ug/L		3	20
Zinc, Dissolved	2.8	U	2.8	U	ug/L		NC	20

TestAmerica Savannah

# QC Association Summary

Client: Weston Solutions, Inc.  
Project/Site: Gold King Mine - Region 9

TestAmerica Job ID: 680-115432-2

## Metals

### Prep Batch: 395499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-115432-1	SJBB-080915-11	Dissolved	Water	200	
680-115432-1	SJBB-080915-11	Total/NA	Water	200	
680-115432-1 DU	SJBB-080915-11	Dissolved	Water	200	
680-115432-1 DU	SJBB-080915-11	Total/NA	Water	200	
680-115432-1 MS	SJBB-080915-11	Dissolved	Water	200	
680-115432-1 MS	SJBB-080915-11	Total/NA	Water	200	
680-115432-1 MSD	SJBB-080915-11	Dissolved	Water	200	
680-115432-1 MSD	SJBB-080915-11	Total/NA	Water	200	
680-115432-2	SJMH-080915-11	Dissolved	Water	200	
680-115432-2	SJMH-080915-11	Total/NA	Water	200	
680-115432-3	SJMC-080915-11	Dissolved	Water	200	
680-115432-3	SJMC-080915-11	Total/NA	Water	200	
680-115432-4	SJDS-080915-11	Dissolved	Water	200	
680-115432-4	SJDS-080915-11	Total/NA	Water	200	
680-115432-5	SJSR-080915-11	Dissolved	Water	200	
680-115432-5	SJSR-080915-11	Total/NA	Water	200	
680-115432-6	SJ4C-080915-11	Dissolved	Water	200	
680-115432-6	SJ4C-080915-11	Total/NA	Water	200	
680-115432-7	SJFP-080915-11	Dissolved	Water	200	
680-115432-7	SJFP-080915-11	Total/NA	Water	200	
680-115432-8	SJHB-080915-11	Dissolved	Water	200	
680-115432-8	SJHB-080915-11	Total/NA	Water	200	
680-115432-9	SJLP-080915-11	Dissolved	Water	200	
680-115432-10	MECT-080915-11	Dissolved	Water	200	
680-115432-11	SJME-080915-11	Dissolved	Water	200	
680-115432-12	SJME-080915-12	Dissolved	Water	200	
LCS 680-395499/2-A	Lab Control Sample	Total/NA	Water	200	
MB 680-395499/1-A	Method Blank	Total/NA	Water	200	

### Prep Batch: 395507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-115432-9	SJLP-080915-11	Total/NA	Water	200	
680-115432-9 DU	SJLP-080915-11	Total/NA	Water	200	
680-115432-9 MS	SJLP-080915-11	Total/NA	Water	200	
680-115432-9 MSD	SJLP-080915-11	Total/NA	Water	200	
680-115432-10	MECT-080915-11	Total/NA	Water	200	
680-115432-11	SJME-080915-11	Total/NA	Water	200	
680-115432-12	SJME-080915-12	Total/NA	Water	200	
LCS 680-395507/2-A	Lab Control Sample	Total/NA	Water	200	
MB 680-395507/1-A	Method Blank	Total/NA	Water	200	

### Analysis Batch: 395685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-115432-1	SJBB-080915-11	Dissolved	Water	200.8	395499
680-115432-1	SJBB-080915-11	Total/NA	Water	200.8	395499
680-115432-1	SJBB-080915-11	Total/NA	Water	200.8	395499
680-115432-1 DU	SJBB-080915-11	Dissolved	Water	200.8	395499
680-115432-1 DU	SJBB-080915-11	Total/NA	Water	200.8	395499
680-115432-1 DU	SJBB-080915-11	Total/NA	Water	200.8	395499
680-115432-1 MS	SJBB-080915-11	Dissolved	Water	200.8	395499
680-115432-1 MS	SJBB-080915-11	Total/NA	Water	200.8	395499

TestAmerica Savannah

# QC Association Summary

Client: Weston Solutions, Inc.  
Project/Site: Gold King Mine - Region 9

TestAmerica Job ID: 680-115432-2

## Metals (Continued)

### Analysis Batch: 395685 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-115432-1 MS	SJBB-080915-11	Total/NA	Water	200.8	395499
680-115432-1 MSD	SJBB-080915-11	Dissolved	Water	200.8	395499
680-115432-1 MSD	SJBB-080915-11	Total/NA	Water	200.8	395499
680-115432-1 MSD	SJBB-080915-11	Total/NA	Water	200.8	395499
680-115432-2	SJMH-080915-11	Dissolved	Water	200.8	395499
680-115432-2	SJMH-080915-11	Total/NA	Water	200.8	395499
680-115432-2	SJMH-080915-11	Total/NA	Water	200.8	395499
680-115432-3	SJMC-080915-11	Dissolved	Water	200.8	395499
680-115432-3	SJMC-080915-11	Total/NA	Water	200.8	395499
680-115432-3	SJMC-080915-11	Total/NA	Water	200.8	395499
680-115432-4	SJDS-080915-11	Dissolved	Water	200.8	395499
680-115432-4	SJDS-080915-11	Total/NA	Water	200.8	395499
680-115432-4	SJDS-080915-11	Total/NA	Water	200.8	395499
680-115432-5	SJSR-080915-11	Dissolved	Water	200.8	395499
680-115432-5	SJSR-080915-11	Total/NA	Water	200.8	395499
680-115432-5	SJSR-080915-11	Total/NA	Water	200.8	395499
680-115432-6	SJ4C-080915-11	Dissolved	Water	200.8	395499
680-115432-6	SJ4C-080915-11	Total/NA	Water	200.8	395499
680-115432-6	SJ4C-080915-11	Total/NA	Water	200.8	395499
680-115432-7	SJFP-080915-11	Dissolved	Water	200.8	395499
680-115432-7	SJFP-080915-11	Total/NA	Water	200.8	395499
680-115432-7	SJFP-080915-11	Total/NA	Water	200.8	395499
680-115432-8	SJHB-080915-11	Dissolved	Water	200.8	395499
680-115432-8	SJHB-080915-11	Total/NA	Water	200.8	395499
680-115432-8	SJHB-080915-11	Total/NA	Water	200.8	395499
680-115432-9	SJLP-080915-11	Dissolved	Water	200.8	395499
680-115432-9	SJLP-080915-11	Total/NA	Water	200.8	395507
680-115432-9 DU	SJLP-080915-11	Total/NA	Water	200.8	395507
680-115432-9 MS	SJLP-080915-11	Total/NA	Water	200.8	395507
680-115432-9 MSD	SJLP-080915-11	Total/NA	Water	200.8	395507
680-115432-10	MECT-080915-11	Dissolved	Water	200.8	395499
680-115432-10	MECT-080915-11	Total/NA	Water	200.8	395507
680-115432-11	SJME-080915-11	Dissolved	Water	200.8	395499
680-115432-11	SJME-080915-11	Total/NA	Water	200.8	395507
680-115432-12	SJME-080915-12	Dissolved	Water	200.8	395499
680-115432-12	SJME-080915-12	Total/NA	Water	200.8	395507
LCS 680-395499/2-A	Lab Control Sample	Total/NA	Water	200.8	395499
LCS 680-395507/2-A	Lab Control Sample	Total/NA	Water	200.8	395507
MB 680-395499/1-A	Method Blank	Total/NA	Water	200.8	395499
MB 680-395507/1-A	Method Blank	Total/NA	Water	200.8	395507

TestAmerica Savannah

# Lab Chronicle

Client: Weston Solutions, Inc.  
Project/Site: Gold King Mine - Region 9

TestAmerica Job ID: 680-115432-2

**Client Sample ID: SJBB-080915-11**

**Lab Sample ID: 680-115432-1**

Date Collected: 08/09/15 18:25

Matrix: Water

Date Received: 08/11/15 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200			50 mL	50 mL	395499	08/11/15 12:52	BJB	TAL SAV
Dissolved	Analysis	200.8		1	50 mL	50 mL	395685	08/11/15 21:39	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Prep	200			50 mL	50 mL	395499	08/11/15 12:52	BJB	TAL SAV
Total/NA	Analysis	200.8		1	50 mL	50 mL	395685	08/11/15 23:05	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Prep	200			50 mL	50 mL	395499	08/11/15 12:52	BJB	TAL SAV
Total/NA	Analysis	200.8		2	50 mL	50 mL	395685	08/12/15 11:00	BWR	TAL SAV
	Instrument ID: ICPMSC									

**Client Sample ID: SJMH-080915-11**

**Lab Sample ID: 680-115432-2**

Date Collected: 08/09/15 19:05

Matrix: Water

Date Received: 08/11/15 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200			50 mL	50 mL	395499	08/11/15 12:52	BJB	TAL SAV
Dissolved	Analysis	200.8		1	50 mL	50 mL	395685	08/11/15 22:03	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Prep	200			50 mL	50 mL	395499	08/11/15 12:52	BJB	TAL SAV
Total/NA	Analysis	200.8		1	50 mL	50 mL	395685	08/11/15 23:22	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Prep	200			50 mL	50 mL	395499	08/11/15 12:52	BJB	TAL SAV
Total/NA	Analysis	200.8		5	50 mL	50 mL	395685	08/12/15 10:56	BWR	TAL SAV
	Instrument ID: ICPMSC									

**Client Sample ID: SJMC-080915-11**

**Lab Sample ID: 680-115432-3**

Date Collected: 08/09/15 17:50

Matrix: Water

Date Received: 08/11/15 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200			50 mL	50 mL	395499	08/11/15 12:52	BJB	TAL SAV
Dissolved	Analysis	200.8		1	50 mL	50 mL	395685	08/11/15 22:16	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Prep	200			50 mL	50 mL	395499	08/11/15 12:52	BJB	TAL SAV
Total/NA	Analysis	200.8		1	50 mL	50 mL	395685	08/11/15 23:26	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Prep	200			50 mL	50 mL	395499	08/11/15 12:52	BJB	TAL SAV
Total/NA	Analysis	200.8		2	50 mL	50 mL	395685	08/12/15 09:38	BWR	TAL SAV
	Instrument ID: ICPMSC									

TestAmerica Savannah

# Lab Chronicle

Client: Weston Solutions, Inc.  
Project/Site: Gold King Mine - Region 9

TestAmerica Job ID: 680-115432-2

**Client Sample ID: SJDS-080915-11**

**Lab Sample ID: 680-115432-4**

Date Collected: 08/09/15 13:15

Matrix: Water

Date Received: 08/11/15 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200			50 mL	50 mL	395499	08/11/15 12:52	BJB	TAL SAV
Dissolved	Analysis	200.8		1	50 mL	50 mL	395685	08/11/15 22:20	BWR	TAL SAV
		Instrument ID: ICPMSC								
Total/NA	Prep	200			50 mL	50 mL	395499	08/11/15 12:52	BJB	TAL SAV
Total/NA	Analysis	200.8		1	50 mL	50 mL	395685	08/11/15 23:30	BWR	TAL SAV
		Instrument ID: ICPMSC								
Total/NA	Prep	200			50 mL	50 mL	395499	08/11/15 12:52	BJB	TAL SAV
Total/NA	Analysis	200.8		2	50 mL	50 mL	395685	08/12/15 09:42	BWR	TAL SAV
		Instrument ID: ICPMSC								

**Client Sample ID: SJSR-080915-11**

**Lab Sample ID: 680-115432-5**

Date Collected: 08/09/15 12:35

Matrix: Water

Date Received: 08/11/15 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200			50 mL	50 mL	395499	08/11/15 12:52	BJB	TAL SAV
Dissolved	Analysis	200.8		1	50 mL	50 mL	395685	08/11/15 22:24	BWR	TAL SAV
		Instrument ID: ICPMSC								
Total/NA	Prep	200			50 mL	50 mL	395499	08/11/15 12:52	BJB	TAL SAV
Total/NA	Analysis	200.8		1	50 mL	50 mL	395685	08/11/15 23:34	BWR	TAL SAV
		Instrument ID: ICPMSC								
Total/NA	Prep	200			50 mL	50 mL	395499	08/11/15 12:52	BJB	TAL SAV
Total/NA	Analysis	200.8		2	50 mL	50 mL	395685	08/12/15 09:46	BWR	TAL SAV
		Instrument ID: ICPMSC								

**Client Sample ID: SJ4C-080915-11**

**Lab Sample ID: 680-115432-6**

Date Collected: 08/09/15 15:31

Matrix: Water

Date Received: 08/11/15 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200			50 mL	50 mL	395499	08/11/15 12:52	BJB	TAL SAV
Dissolved	Analysis	200.8		1	50 mL	50 mL	395685	08/11/15 22:28	BWR	TAL SAV
		Instrument ID: ICPMSC								
Total/NA	Prep	200			50 mL	50 mL	395499	08/11/15 12:52	BJB	TAL SAV
Total/NA	Analysis	200.8		1	50 mL	50 mL	395685	08/11/15 23:39	BWR	TAL SAV
		Instrument ID: ICPMSC								
Total/NA	Prep	200			50 mL	50 mL	395499	08/11/15 12:52	BJB	TAL SAV
Total/NA	Analysis	200.8		2	50 mL	50 mL	395685	08/12/15 09:50	BWR	TAL SAV
		Instrument ID: ICPMSC								

TestAmerica Savannah

# Lab Chronicle

Client: Weston Solutions, Inc.  
Project/Site: Gold King Mine - Region 9

TestAmerica Job ID: 680-115432-2

**Client Sample ID: SJFP-080915-11**

**Lab Sample ID: 680-115432-7**

Date Collected: 08/09/15 10:15

Matrix: Water

Date Received: 08/11/15 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200			50 mL	50 mL	395499	08/11/15 12:52	BJB	TAL SAV
Dissolved	Analysis	200.8		1	50 mL	50 mL	395685	08/11/15 22:32	BWR	TAL SAV
Instrument ID: ICPMSC										
Total/NA	Prep	200			50 mL	50 mL	395499	08/11/15 13:06	BJB	TAL SAV
Total/NA	Analysis	200.8		1	50 mL	50 mL	395685	08/11/15 23:43	BWR	TAL SAV
Instrument ID: ICPMSC										
Total/NA	Prep	200			50 mL	50 mL	395499	08/11/15 13:06	BJB	TAL SAV
Total/NA	Analysis	200.8		2	50 mL	50 mL	395685	08/12/15 09:54	BWR	TAL SAV
Instrument ID: ICPMSC										

**Client Sample ID: SJHB-080915-11**

**Lab Sample ID: 680-115432-8**

Date Collected: 08/09/15 11:31

Matrix: Water

Date Received: 08/11/15 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200			50 mL	50 mL	395499	08/11/15 12:52	BJB	TAL SAV
Dissolved	Analysis	200.8		1	50 mL	50 mL	395685	08/11/15 22:36	BWR	TAL SAV
Instrument ID: ICPMSC										
Total/NA	Prep	200			50 mL	50 mL	395499	08/11/15 13:06	BJB	TAL SAV
Total/NA	Analysis	200.8		1	50 mL	50 mL	395685	08/11/15 23:55	BWR	TAL SAV
Instrument ID: ICPMSC										
Total/NA	Prep	200			50 mL	50 mL	395499	08/11/15 13:06	BJB	TAL SAV
Total/NA	Analysis	200.8		2	50 mL	50 mL	395685	08/12/15 09:58	BWR	TAL SAV
Instrument ID: ICPMSC										

**Client Sample ID: SJLP-080915-11**

**Lab Sample ID: 680-115432-9**

Date Collected: 08/09/15 09:54

Matrix: Water

Date Received: 08/11/15 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200			50 mL	50 mL	395499	08/11/15 12:52	BJB	TAL SAV
Dissolved	Analysis	200.8		1	50 mL	50 mL	395685	08/11/15 22:40	BWR	TAL SAV
Instrument ID: ICPMSC										
Total/NA	Prep	200			50 mL	50 mL	395507	08/11/15 13:33	BJB	TAL SAV
Total/NA	Analysis	200.8		1	50 mL	50 mL	395685	08/12/15 02:34	BWR	TAL SAV
Instrument ID: ICPMSC										

**Client Sample ID: MECT-080915-11**

**Lab Sample ID: 680-115432-10**

Date Collected: 08/09/15 14:05

Matrix: Water

Date Received: 08/11/15 09:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200			50 mL	50 mL	395499	08/11/15 12:52	BJB	TAL SAV

TestAmerica Savannah

# Lab Chronicle

Client: Weston Solutions, Inc.  
Project/Site: Gold King Mine - Region 9

TestAmerica Job ID: 680-115432-2

**Client Sample ID: MECT-080915-11**

**Lab Sample ID: 680-115432-10**

**Date Collected: 08/09/15 14:05**

**Matrix: Water**

**Date Received: 08/11/15 09:39**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	200.8		1	50 mL	50 mL	395685	08/11/15 22:44	BWR	TAL SAV
		Instrument ID: ICPMSC								
Total/NA	Prep	200			50 mL	50 mL	395507	08/11/15 13:33	BJB	TAL SAV
Total/NA	Analysis	200.8		1	50 mL	50 mL	395685	08/12/15 02:59	BWR	TAL SAV
		Instrument ID: ICPMSC								

**Client Sample ID: SJME-080915-11**

**Lab Sample ID: 680-115432-11**

**Date Collected: 08/09/15 16:35**

**Matrix: Water**

**Date Received: 08/11/15 09:39**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200			50 mL	50 mL	395499	08/11/15 12:52	BJB	TAL SAV
Dissolved	Analysis	200.8		1	50 mL	50 mL	395685	08/11/15 22:49	BWR	TAL SAV
		Instrument ID: ICPMSC								
Total/NA	Prep	200			50 mL	50 mL	395507	08/11/15 13:33	BJB	TAL SAV
Total/NA	Analysis	200.8		1	50 mL	50 mL	395685	08/12/15 03:12	BWR	TAL SAV
		Instrument ID: ICPMSC								

**Client Sample ID: SJME-080915-12**

**Lab Sample ID: 680-115432-12**

**Date Collected: 08/09/15 16:35**

**Matrix: Water**

**Date Received: 08/11/15 09:39**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	200			50 mL	50 mL	395499	08/11/15 12:52	BJB	TAL SAV
Dissolved	Analysis	200.8		1	50 mL	50 mL	395685	08/11/15 22:53	BWR	TAL SAV
		Instrument ID: ICPMSC								
Total/NA	Prep	200			50 mL	50 mL	395507	08/11/15 13:33	BJB	TAL SAV
Total/NA	Analysis	200.8		1	50 mL	50 mL	395685	08/12/15 03:16	BWR	TAL SAV
		Instrument ID: ICPMSC								

## Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

TestAmerica Savannah

## TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404-6019

phone 912.354.7858 fax 912.352.0165


## Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact		Project Manager: Jonathan Colomb		Site Contact: Jonathan Colomb		Date: 8/10/15		COC No:						
Weston Solutions, Inc.		Tel/Fax: 773-947-4064		Lab Contact: Sheila Hoffman		Carrier: Fed Ex		1 of 1 COCs						
70 N.E. Loop 410; Suite 600		Analysis Turnaround Time						Sampler:						
San Antonio, TX 78216-5642		<input checked="" type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS						For Lab Use Only:						
(703) 724-0544 Phone		TAT If different from Below						Walk-in Client:						
(xxx) xxx-xxxx FAX		<input type="checkbox"/> 2 weeks						Lab Sampling:						
Project Name: Gold King Mine - Region 9		<input type="checkbox"/> 1 week												
Site: Region 9		<input type="checkbox"/> 2 days						Job / SDG No.:						
P O # 20409.016.002.0010.08		<input checked="" type="checkbox"/> 1 day												
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Total Metals; Including Hg*	Dissolved Metals; Including Hg*	pH (SM4500H)	Alkalinity (SM2320B)	TSS (SM2540D)	TDS (SM2450C)	Sample Specific Notes:
MECT-080915-11	8/9/2015	1405	G	W	4	Y	N	X	X	X	X	X	X	
SJME-080915-11	8/9/15	1635	G	W	4	Y	N	X	X	X	X	X	X	
SJME-080915-12	8/9/15	1635	G	W	4	Y	N	X	X	X	X	X	X	
 680-115432 Chain of Custody														
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other:														
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)								
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown						<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for: Months								
Special Instructions/QC Requirements & Comments: * (200.7: Al, Ca, Fe, K, Mg, Na) (200.8: Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Mn, Mo, Ni, Ag, Se, Ti, V, Zn) (245.1 Hg) (SM2340B) ** EPA 200.7, 200.8, 245.1 Dissolved metals samples have been field filtered														
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No						Custody Seal No.:								
Relinquished by: Jonathan Colomb						Company: Weston Solutions								
Relinquished by:						Date/Time: 8/10/15; 12:00								
Relinquished by:						Date/Time:								
Relinquished by:						Date/Time:								

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## Login Sample Receipt Checklist

Client: Weston Solutions, Inc.

Job Number: 680-115432-2

**Login Number: 115432**

**List Source: TestAmerica Savannah**

**List Number: 1**

**Creator: Daughtry, Beth A**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	WO# listed on COC is incorrect
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	False	Hardness analysis is not listed on COC (listed under Special instructions)
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Certification Summary

Client: Weston Solutions, Inc.  
Project/Site: Gold King Mine - Region 9

TestAmerica Job ID: 680-115432-2

## Laboratory: TestAmerica Savannah

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Colorado	State Program	8	N/A	12-31-15
New Mexico	State Program	6	N/A	06-30-16